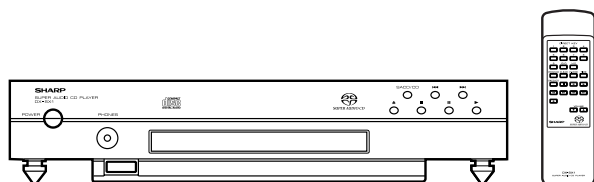


# SHARP SERVICE MANUAL

No. S6053DXSX1H//

SACD PLAYER

## MODEL DX-SX1H



**COMPACT**  
**disc**  
**DIGITAL AUDIO**

**SUPER AUDIO CD**

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

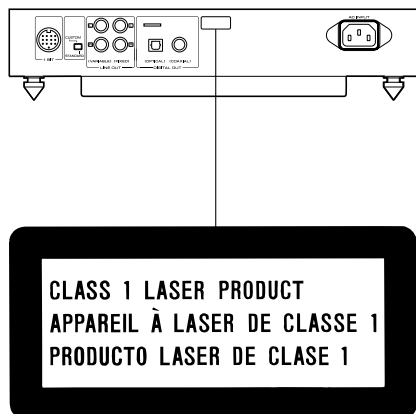
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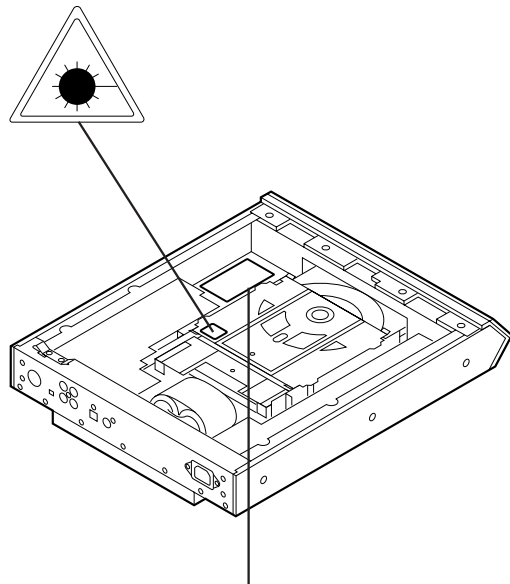
## SAFETY PRECAUTION FOR SERVICE MANUAL

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

- (For U.K.)

[illegible]

<p>Laser Diode Properties</p> <p>Material: GaAlAs</p> <p>Wavelength: 780 nm/650 nm</p> <p>Emission Duration: continuous</p> <p>Laser Output: max. 0.7 mW</p>
--



CAUTION=VISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

VARNING=SYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.

ADVERSE=USYNLIG LASERSTRÅLNING VÄR ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVTÄTTA OBLÅT ALTIINA NÄKYMÄTÖN LASERLÄSÄTÄLYLLE. ÄLÄ TUOKATA STARETAA ALKANA KATSO SIIS OPTISET LAITTEEN LAPSI.

VARNING=OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

ADVERSE=USYNLIG LASERSTRÅLNING NÄR DEKSEL ÅPNES. STIR IKKE IND I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

**VARNING - OM APPARATEN ANVÄNDS PÅ AN-  
NAT SÄTT ÄN I DENNA BRUKSANVISNING  
SPECIFICERAS. KAN ANVÄNDAREN UT-  
SÄTTAS FÖR OSYNLIG LASERSTRÅLNING,  
SOM ÖVERSKRIDER GRÄNSEN FÖR LASER-  
KLASS 1.**

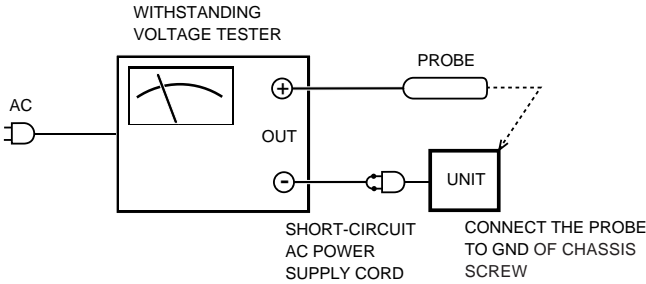
IMPORTANT SERVICE NOTES (FOR U.K. ONLY)

Before returning the unit to the customer after completion of a repair or adjustment it is necessary for the following withstand voltage test to be applied to ensure the unit is safe for the customer to use.

Setting of Withstanding Voltage Tester and set.

Set name	set value
Withstanding Voltage Tester	
Test voltage	2,120 VPEAK 1,500 VRMS
Set time	60 secs
Set current (Cutoff current)	4 mA
Unit	
Judgment	

OK: The "GOOD" lamp lights.  
NG: The "NG" lamp lights and the buzzer sounds.



FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

**Channel:** Stereo 2 channels

**Frequency range:** 2 Hz - 100 kHz  
(Super Audio CD)

**Frequency response:** 2 Hz - 50 kHz  
(Super Audio CD)  
2 Hz - 20 kHz  
(CD)

**Total harmonic distortion:** 0.0012 % (1 kHz, 2 V)

**Dynamic range:** 105 dB or more  
(Super Audio CD)

**Wow and flutter:** Unmeasurable (less than  $\pm 0.001$  % W. peak)

**Output terminals:** 1-bit digital output terminal x 1  
RCA coaxial digital output x 1  
Square type optical digital output x 1  
RCA analog output (FIXED) x 1  
RCA analog output (VARIABLE) x 1  
Headphone jack [3.5 mm (1/8")] x 1

**Other terminals:** AC input x 1

**Power source:** 230 V, 50 Hz

**Power consumption:** 16 W

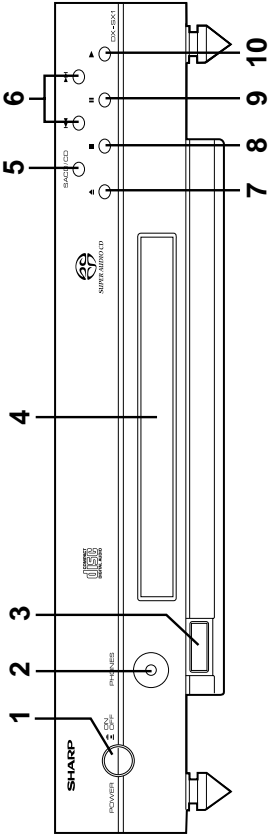
**Dimensions:** Width; 300 mm (11 - 13/16")  
Height; 66 mm (2 - 5/8")  
Depth; 382 mm (15 - 1/16")

**Weight:** Approx. 5.8 kg (12.79 lbs.)

Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

■ Main unit



- 1 **Power Button**  
Turns the player on or off.

2 **Headphone Jack**  
Use headphones of 16 - 50 ohms (32 ohms recommended) impedance with a 3.5 mm (1/8") diameter stereo mini plug.  
Volume can be adjusted using the volume buttons on the remote control.

3 **Remote Control Sensor**

4 **Disc Tray**

5 **SACD/CD Selector Button**  
Used to set the mode to "SACD" or "CD" on a hybrid disc.

6 **Track Up/Down Buttons**  
Locates the beginning of tracks. Press and hold down during playback for fast forward or fast reverse.

7 **Open/Close Button**  
Opens or closes the disc tray.

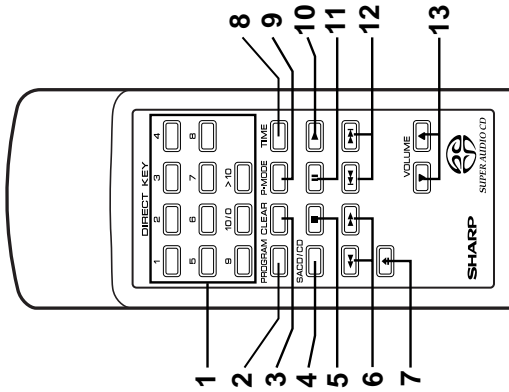
8 **Stop Button**  
Stops the disc.

9 **Pause Button**  
Stops the disc temporarily.

10 **Play Button**  
Plays the disc.

11 **Indicators**  
  
1 SACD Indicator  
2 Pause Indicator  
3 Play Indicator  
4 SACD/CD Indicators  
5 Track Number Indicator  
6 Total Time Indicator  
7 Remaining Time Indicator  
8 Program Indicator  
9 Random Play Indicator  
10 Repeat Indicator  
11 Single Track Repeat Indicator  
12 All Tracks Repeat Indicator

■ Remote control



- 1 **Direct Selection Buttons**  
Used to select tracks directly.

2 **Program Button**  
Used to change the order of tracks.

3 **Clear Button**  
Clears the programmed tracks.

4 **SACD/CD Selector Button**  
Used to set the mode to "SACD" or "CD" on a hybrid disc.

5 **Stop Button**  
Stops the disc.

6 **Fast Forward/Fast Reverse Buttons**  
Press and hold down during playback for fast forward or fast reverse.

7 **Open/Close Button**  
Opens or closes the disc tray.

8 **Time Display Button**  
Displays playing time and remaining time of each track, and total remaining time of the disc.

9 **Playback Mode Selector Button**  
Used to set the playback mode to "normal playback", "all tracks repeat play", "single track repeat play", or "random play".

10 **Play Button**  
Plays the disc.

11 **Pause Button**  
Stops the disc temporarily.

12 **Track Up/Down Buttons**  
Used to locate the beginning of tracks.

13 **Volume Buttons**  
Control the headphone output and the line output (VARIABLE) levels at the same time.

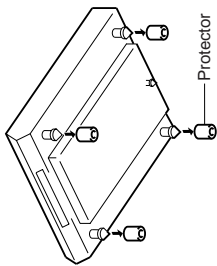
OPERATION MANUAL

NAMES AND CONNECTIONS

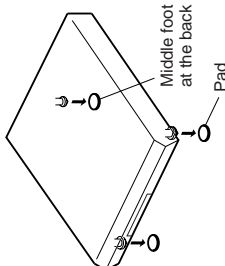
Connect plugs securely to each terminal to prevent noise generation.  
Turn off the power of each piece of equipment before making any connection.

Before installation

Protectors are applied to all four feet.  
Remove them before installation.

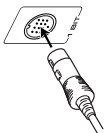


It is recommended to attach the three supplied pads as shown below because this player is supported at three points.  
The pads prevent slippage or damaging the rack.



1-bit signal output terminal

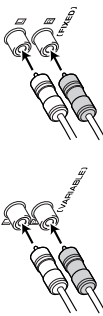
Connect to SHARP's 1 bit amplifier using the supplied 1-bit signal cable.



1-bit signals of Super Audio CDs can be sent using SHARP's 1 bit amplifier only.

Line output terminals

Connect to an amplifier using RCA cords.



[VARIABLE]

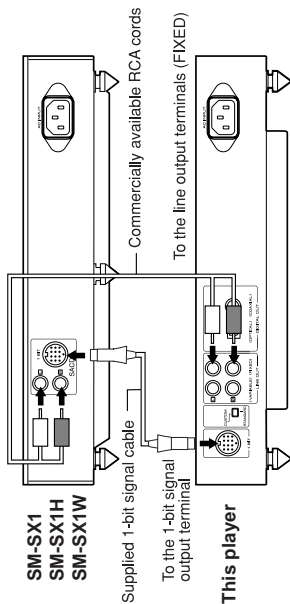
The line output and the headphone output levels can be changed at the same time using the volume buttons on the remote control.

[FIXED]

The output level is unchangeable.

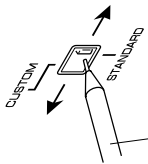
Connecting to SHARP's 1 bit amplifier

Connect the amplifier to both the 1-bit signal output and the line output terminals (FIXED).



CUSTOM/STANDARD selector (analog output only)

This switch is ordinarily set to "STANDARD".  
Set to "CUSTOM" when you connect the player to SHARP's 1 bit amplifier.



Use the point of a ball point pen (or the like) to switch.

Conventional amplifiers and speakers are designed to meet the audible range. If the volume or tone level of your amplifier is turned up too high during playback, noise may be generated or the protection circuit may be activated.

Set this switch, according to the amplifier to be connected, to prevent the above problems.

Setting to "CUSTOM" on an ordinary amplifier can cause noise or damage your amplifier and speakers.

This switch does not affect the signals sent from the 1-bit signal output terminal and the digital output terminals.

Digital output terminals

Only signals of conventional CDs are sent from the digital output terminals.  
1-bit signals of Super Audio CDs are not sent.

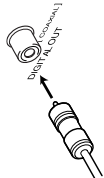
[Digital (OPTICAL) output terminal]

Connect equipment using a square type optical digital cable.



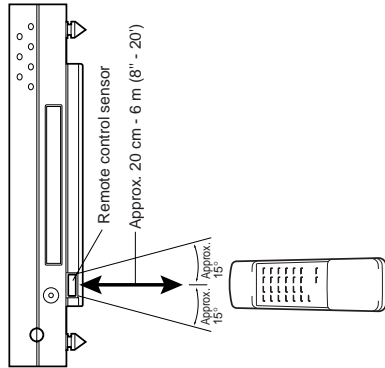
[Digital (COAXIAL) output terminal]

Connect equipment using RCA coaxial cable.



REMOTE CONTROL

Usable range



Use the remote control within the range shown to the left.

- Do not expose the remote control sensor to direct sunlight, as this may cause improper operation.
- Do not attach anything, such as a sticker, to the remote control sensor.  
The remote control may not work.

**Replacing batteries for the remote control**  
The battery life is approximately 1 year when used normally.  
Replace the batteries if the operating distance is reduced.

## DISASSEMBLY

**Caution on Disassembly**

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Panel	1. Screw ..... (A1) x5	6-1
2	Main PWB	1. Screw ..... (B1) x10 2. Socket ..... (B2) x6	6-1
3	Power PWB	1. Screw ..... (C1) x6 2. Socket ..... (C2) x5	6-1
4	SACD Mechanism/ Front Panel	1. Screw ..... (D1) x7 2. Screw ..... (D2) x8 3. Remove the tray cover. 4. Socket ..... (D3) x1	6-2, 6-3
5	Power Switch/ Headphones PWB	1. Screw ..... (E1) x5 2. Socket ..... (E2) x2	6-4
6	Display PWB	1. Screw ..... (F1) x7	7-1
7	CD Servo/ Pickup Sensor/ Mode Switch PWB	1. Screw ..... (G1) x7 2. Socket ..... (G2) x3 3. Flat Cable ..... (G3) x2	7-2
8	Tray Sensor PWB	1. Screw ..... (H1) x9	7-3

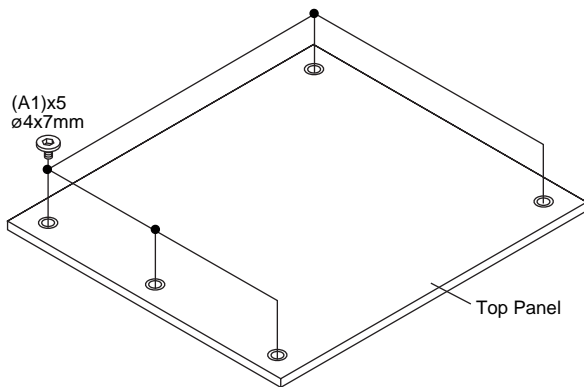


Figure 6-1

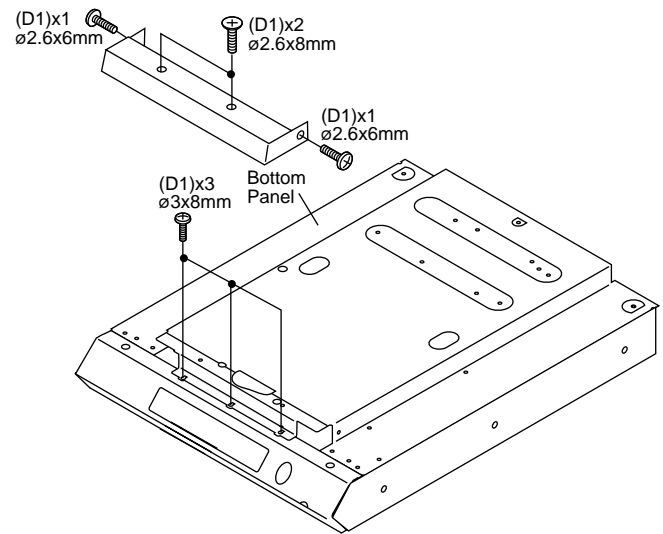
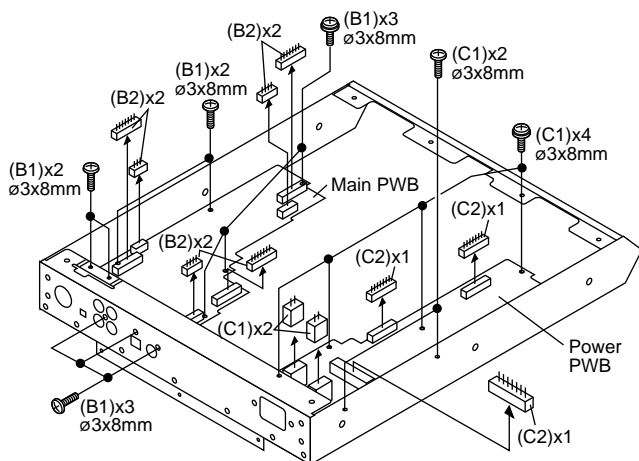


Figure 6-2

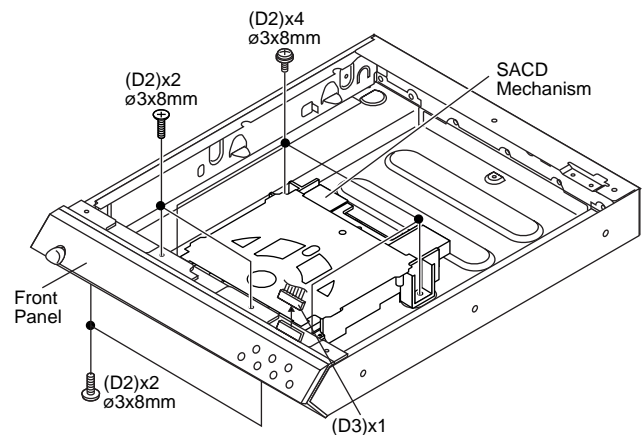


Figure 6-3

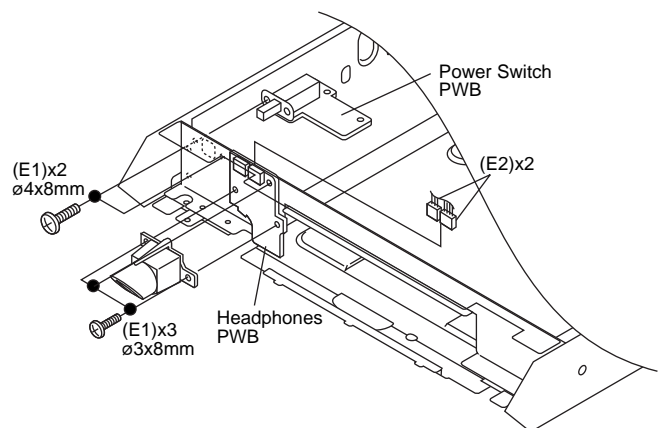
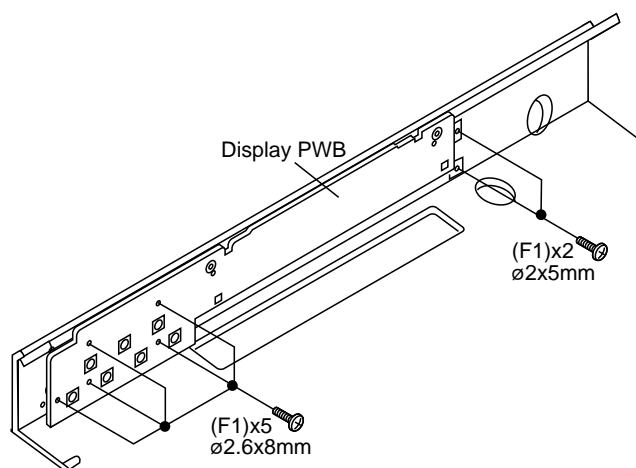
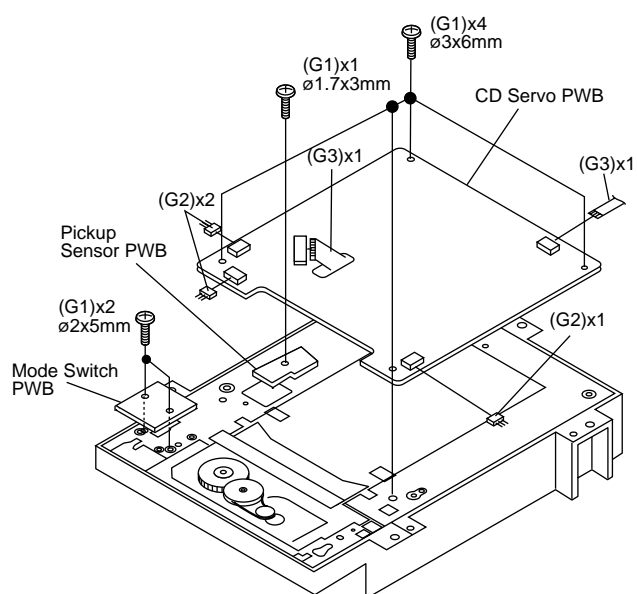


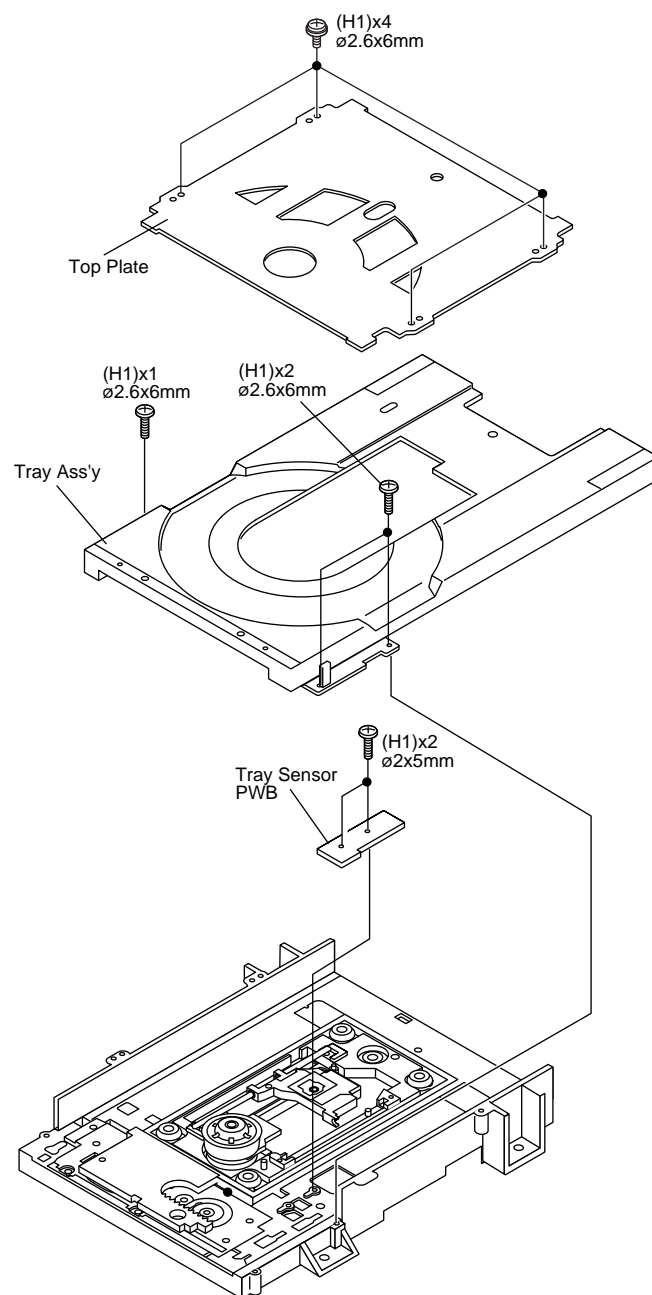
Figure 6-4



**Figure 7-1**



**Figure 7-2**



**Figure 7-3**

## REMOVING AND REINSTALLING THE MAIN PARTS

### SACD MECHANISM SECTION

Perform steps 1, 4, 7 and 8 of the disassembly method to remove the SACD mechanism.

#### How to remove the loading motor (See Fig. 8-1.)

1. Remove the lift lever.
2. Remove the screws (A1) x 4 pcs., to remove the gear cover.
3. Remove the screws (A2) x 2 pcs., to remove the loading motor.

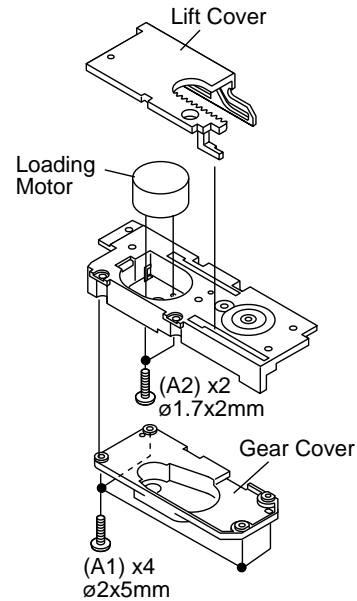


Figure 8-1

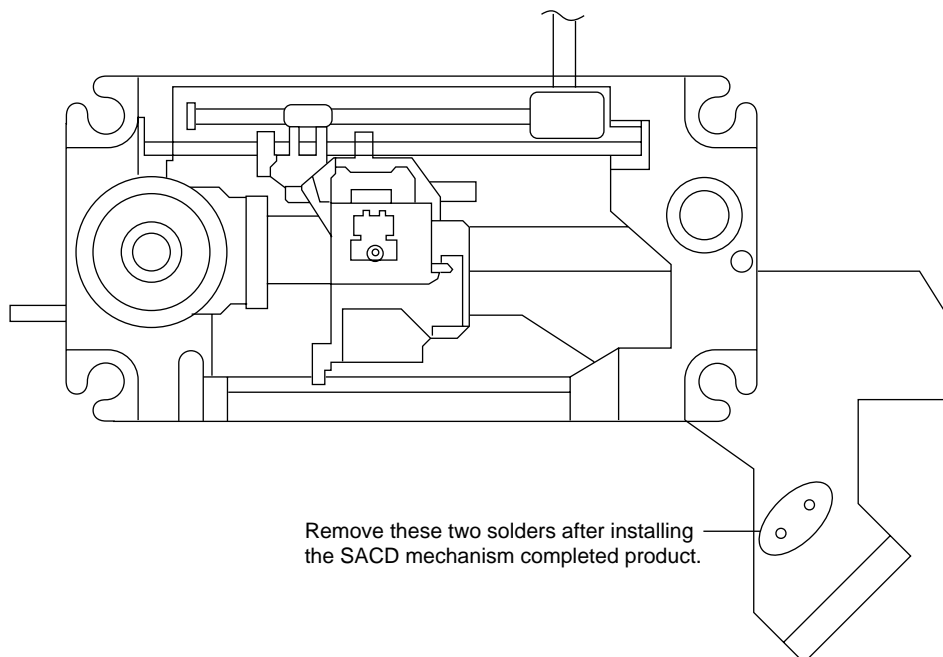
#### (Adjusting the SACD mechanism completed products)

It is necessary to position the spindle motor, the sub-shaft (mechanism), and the pickup to play a nonstandardized SACD disc. If the pickup or motor is replaced at the service division, these adjustments cannot be performed because of the facility and measuring equipment matters.

The SACD mechanism completed products are adjusted for the above reasons.

#### After installing:

After installing the SACD mechanism completed product, remove the two solders shown below.



- The two solders are used to eliminate static electricity before installing the SACD mechanism completed product.

Figure 8-2



### Adjusting the tension of the timing belt

Remove the gear unit and connect the ammeter to the DC power as shown in Fig. 9-1.

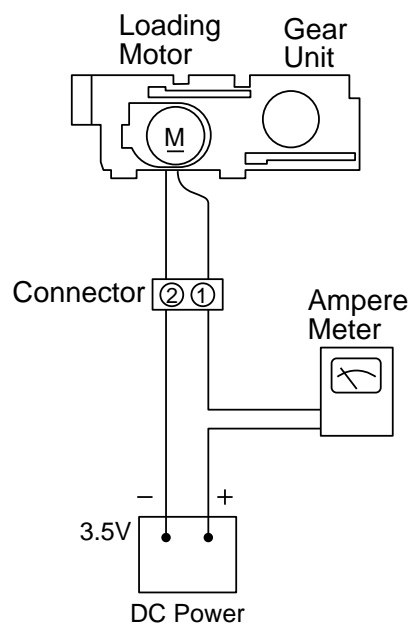


Figure 9-1

If measurement of the loading motor current is possible, move the motor in the direction of the arrow so as to obtain 40 - 50 mA, and fix the motor with screws (A1) x 2 pcs.

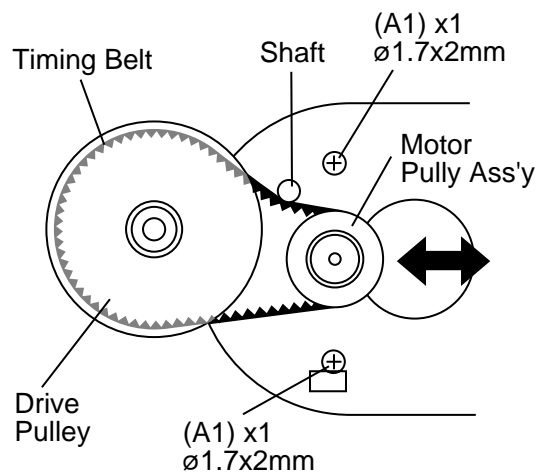


Figure 9-2

## ADJUSTMENT

## TEST MODE

## Description of the test mode

## 1. How to enter the test mode

In the no disc mode and the tray eject mode, press the SACD/CD button and the track down button more than two seconds.

Display: F 0 \_ \_ 0 0 0 0

## 2. Entering a desired test mode

## ① Version check

Press the SACD button to enter this mode.

Display: 1 0 \_ 9 0 9 2 8

Year/Month/Day

Program date

## ② Mechanism test

Press the STOP button to enter this mode.

(In case of the no disc mode, eject the tray.)

Display: 2 0 \_ 0 0 0 0 0

## ③ Dynamic test

Press the PAUSE button to enter this mode.

(In case of the no disc mode, eject the tray.)

Display: 3 0 \_ 0 0 0 0 0

## ④ FIP test

Press the PLAY button to enter this mode

Display: All lamps lit up.

Press the PLAY button again to return to the initial test mode

Display: F 0 \_ 0 0 0 0 0

## 3. Version check mode

## ① Program date

Display: 1 0 \_ 9 0 9 2 8

Year/Month/Day

## ② Model number (Press the PLAY button in the step ①.)

Display: 1 0 \_ 0 0 0 1 0

Model number

## ③ Version (Press the PLAY button in the step ②.)

Display: 1 0 \_ A 0 0 0 1

Version number

## ④ Then press the PLAY button to return to the initial test mode.

Display: F 0 \_ 0 0 0 0 0

## 4. Mechanism test

## ① (In case of the no disc mode, eject the tray.)

Display: 2 0 \_ 0 0 0 0 0

## ② Tray mechanism aging mode (Press the OPEN/CLOSE button in the step ①.)

Display 2 1 \_ 0 0 0 0 5

Number of times of aging

## ③ Sled motor aging mode (Press the PLAY button in the step ①.)

Display: 2 2 \_ 0 0 0 0 5

Number of times of aging

## 5. Dynamic test

## ① (In case of the no disc mode, eject the tray.)

Display: 3 0 \_ 0 0 0 0 0

## ② Tray load (Press the OPEN/CLOSE button in the step ①.)

Display: 3 0 \_ 0 0 0 0 0

## ③ Laser test mode (Press the STOP button in the step ②.)

Display: 3 1 \_ 0 0 0 0 0 (Check the slide feed.)

## ④ Step execution mode (Press the PAUSE button in the step ②.)

Display: 3 2 \_ 0 0 0 0 0

## ⑤ Continuous playback mode (Press the PLAY button in the step ②.)

Display: 3 3 \_ 0 0 0 0 0

**6. Laser test mode**

- ① Enter the laser test mode from the dynamic test mode.  
Display: 3 1 \_ 0 0 0 0
- ② CD laser lit up (Press the STOP button in the step ① or ③.)  
Display: 3 1 1 0 0 0 0
- ③ SACD laser lit up (Press the PAUSE button in the step ① or ②.)  
Display: 3 1 2 0 0 0 0
- ④ Laser test mode completed (Press the PLAY button in the step ①, ② or ③.)  
Display: F 0 \_ 0 0 0 0

**7. Step test mode**

- ① Enter the step test mode from the dynamic test mode.  
Display: 3 2 \_ 0 0 0 0
- ② Slide feed (Press the SKIP+ or - button to feed the slide by a given quantity.)  
Display: 3 2 \_ 1 0 0 0
- ③ Next step (Press the PLAY button in the step ②.)  
Display: 3 2 2 0 0 0 0
- ④ Next step (Press the PLAY button in the step ③.)  
Display: 3 2 3 0 0 0 0
- ⑤ Next step (Press the PLAY button in the step ④.)  
Display: 3 2 4 0 0 0 0
- ⑥ Next step (Press the PLAY button in the step ⑤.)  
Display: 3 2 5 0 0 0 0
- ⑦ Next step (Press the PLAY button in the step ⑥.)  
Display: 3 2 6 0 0 0 0
- ⑧ Next step (Press the PLAY button in the step ⑦.)  
Display: 3 2 7 0 0 0 0
- ⑨ Next step (Press the PLAY button in the step ⑧.)  
Display: F 1 1 ※※※※※ Automatic adjustment values are displayed.

F 1 1	Version information	F 1 2	Focus offset value	F 1 3	Track offset value
F 1 4	Zero-layer focus balance value	F 1 5	One-layer focus balance value	F 1 6	Track balance value
F 1 7	Zero-layer focus gain value	F 1 8	One-layer focus gain value	F 1 9	Track gain value
F 1 A	RF gain value	F 1 B	RF amplitude value	F 1 C	Inner circumference switch ID value

**8. Continuous playback test mode**

- ① Enter the continuous playback test mode from the dynamic test mode.  
Display: 3 3 \_ 0 0 0 0
- ② Playback error (Press the PLAY button in the step ①.)  
Display: 3 3 1 0 0 0 0
- ③ Track jump (Press the ※※※※※ in the step ①.)  
Display: 3 1 \_ 0 0 0 0
- ④ Layer jump (Press the SCAD/CD button in the step ①.)  
Display: 3 1 \_ 0 0 0 0

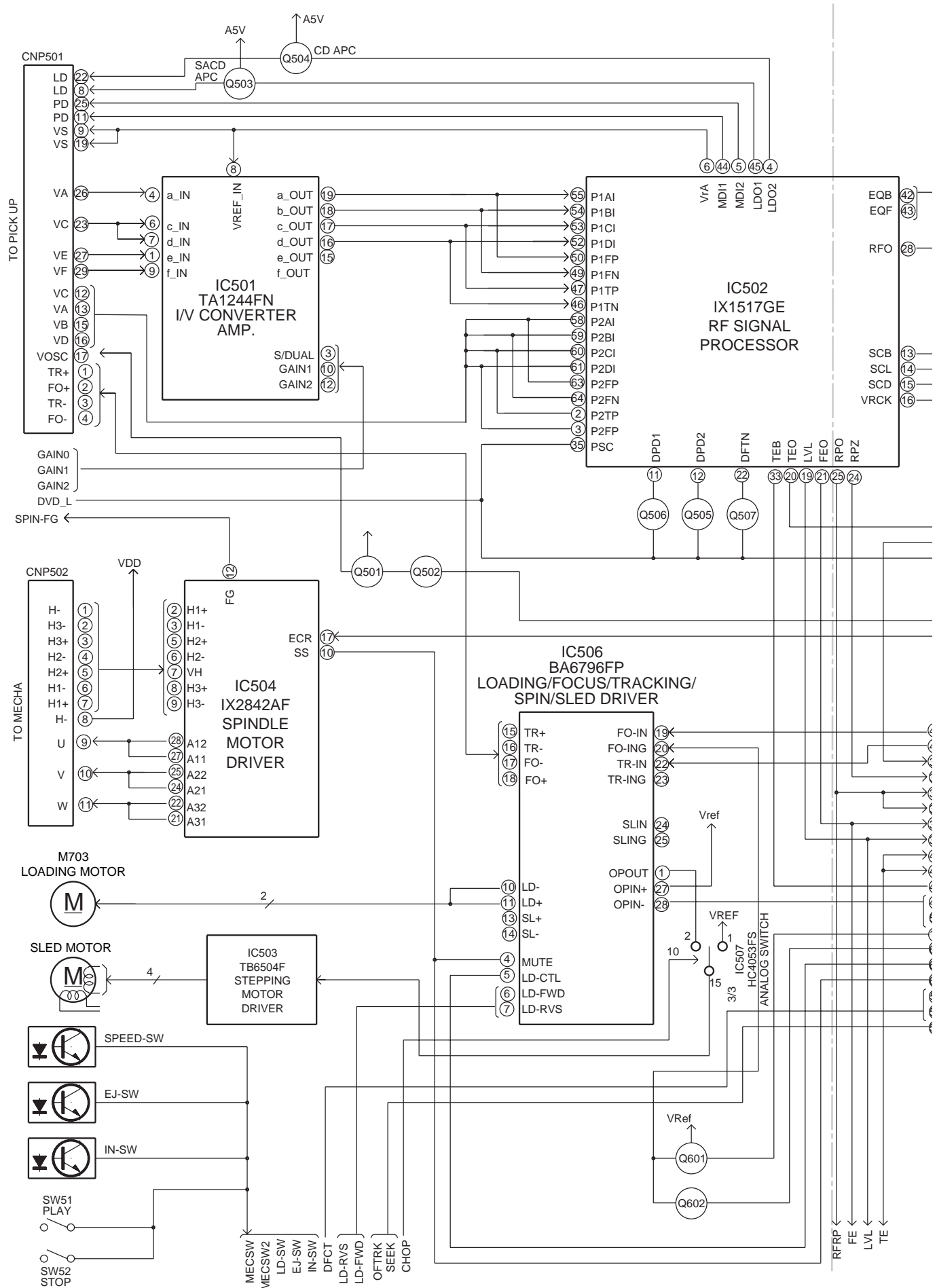


Figure 12 BLOCK DIAGRAM (1/6)



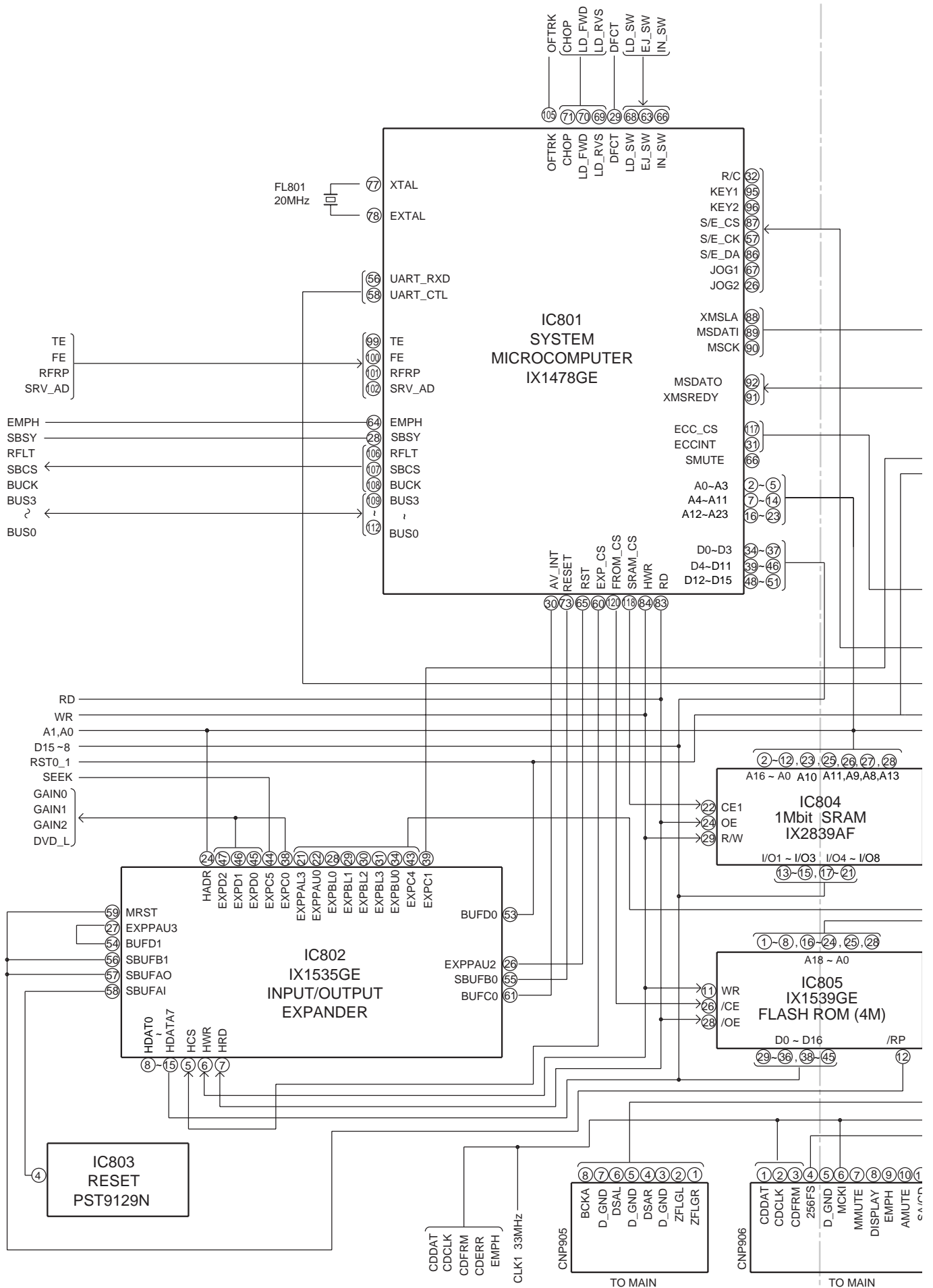
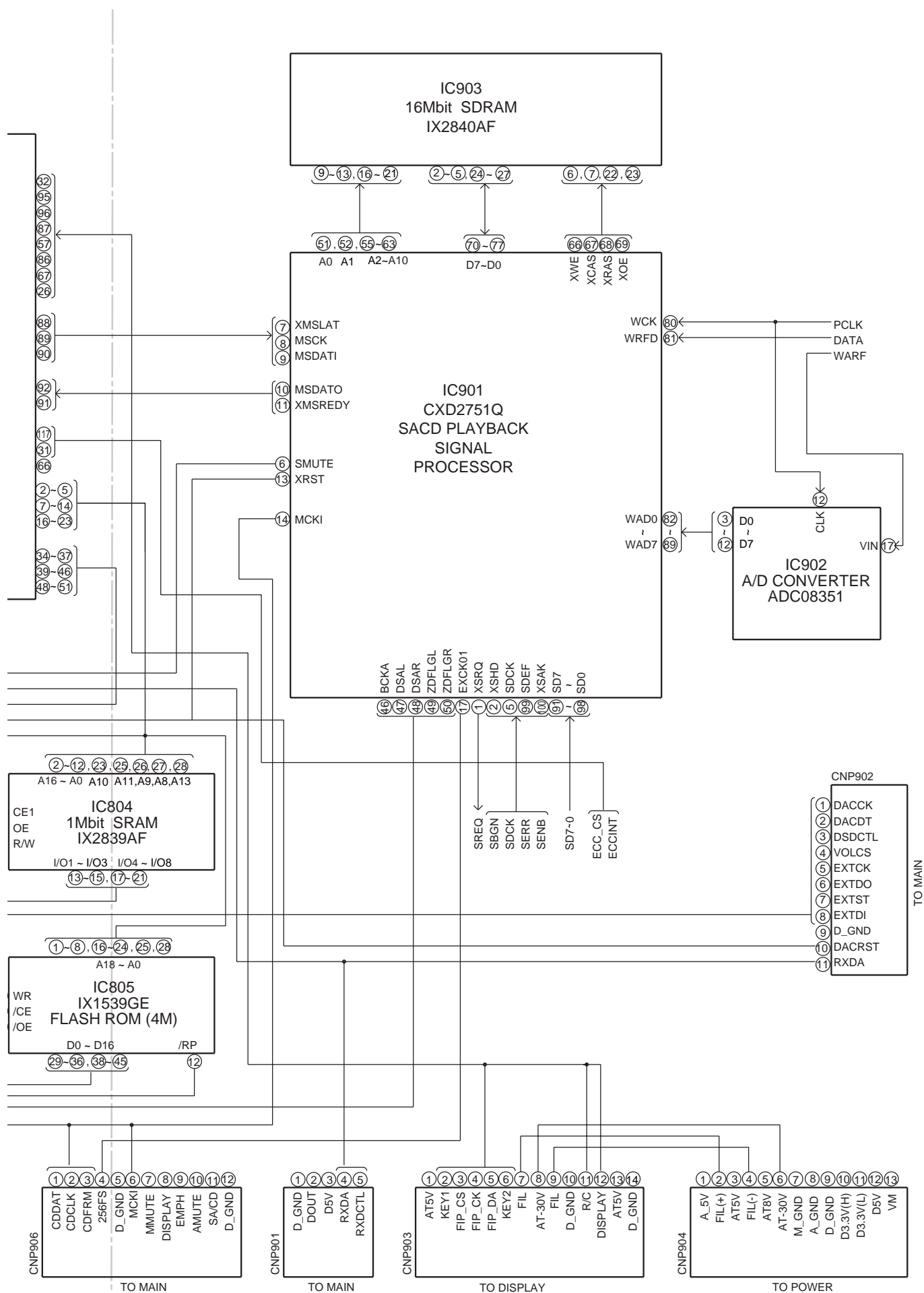


Figure 14 BLOCK DIAGRAM (3/6)



**Figure 15 BLOCK DIAGRAM (4/6)**

# DX-SX1H

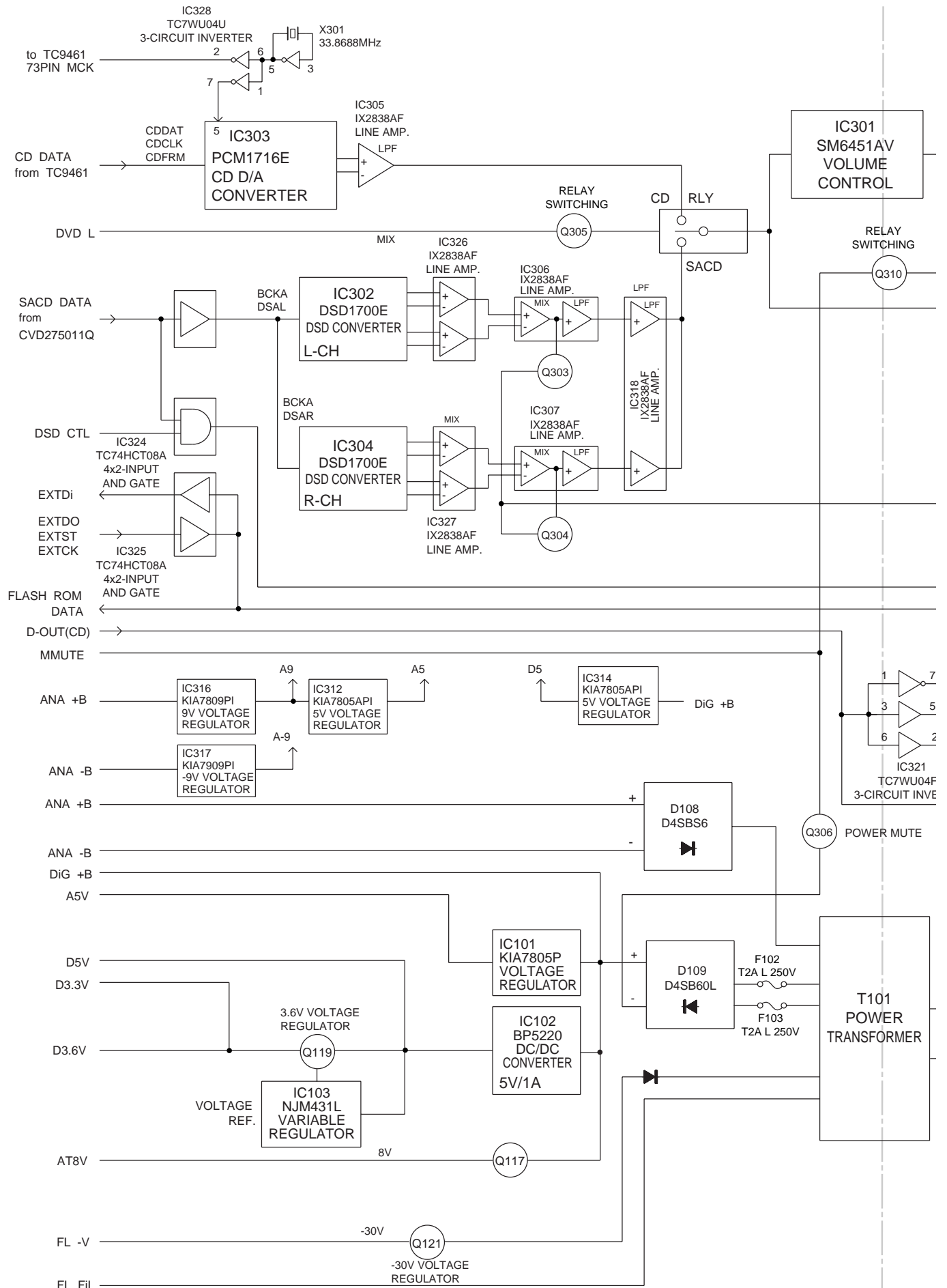


Figure 16 BLOCK DIAGRAM (5/6)



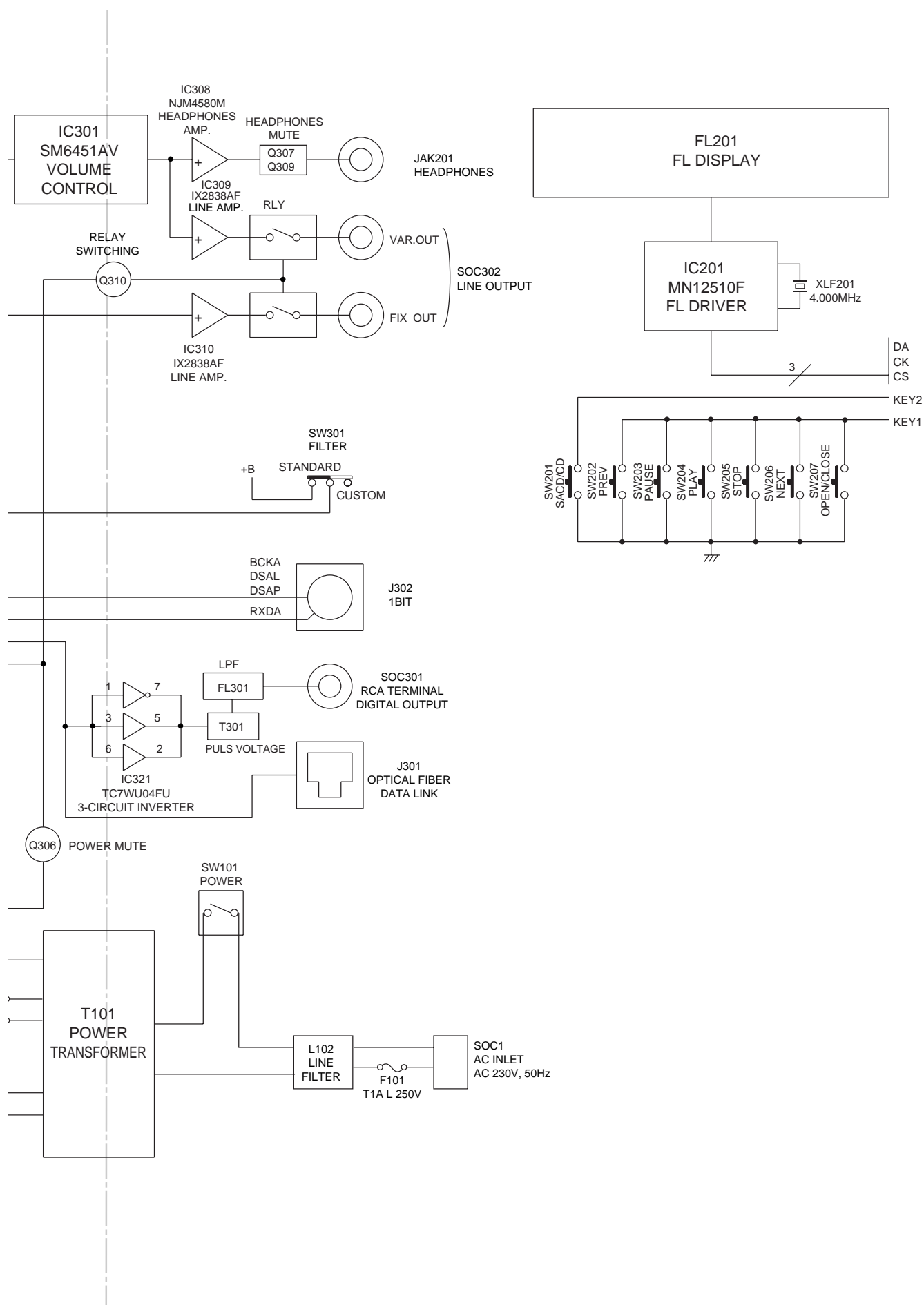


Figure 17 BLOCK DIAGRAM (6/6)

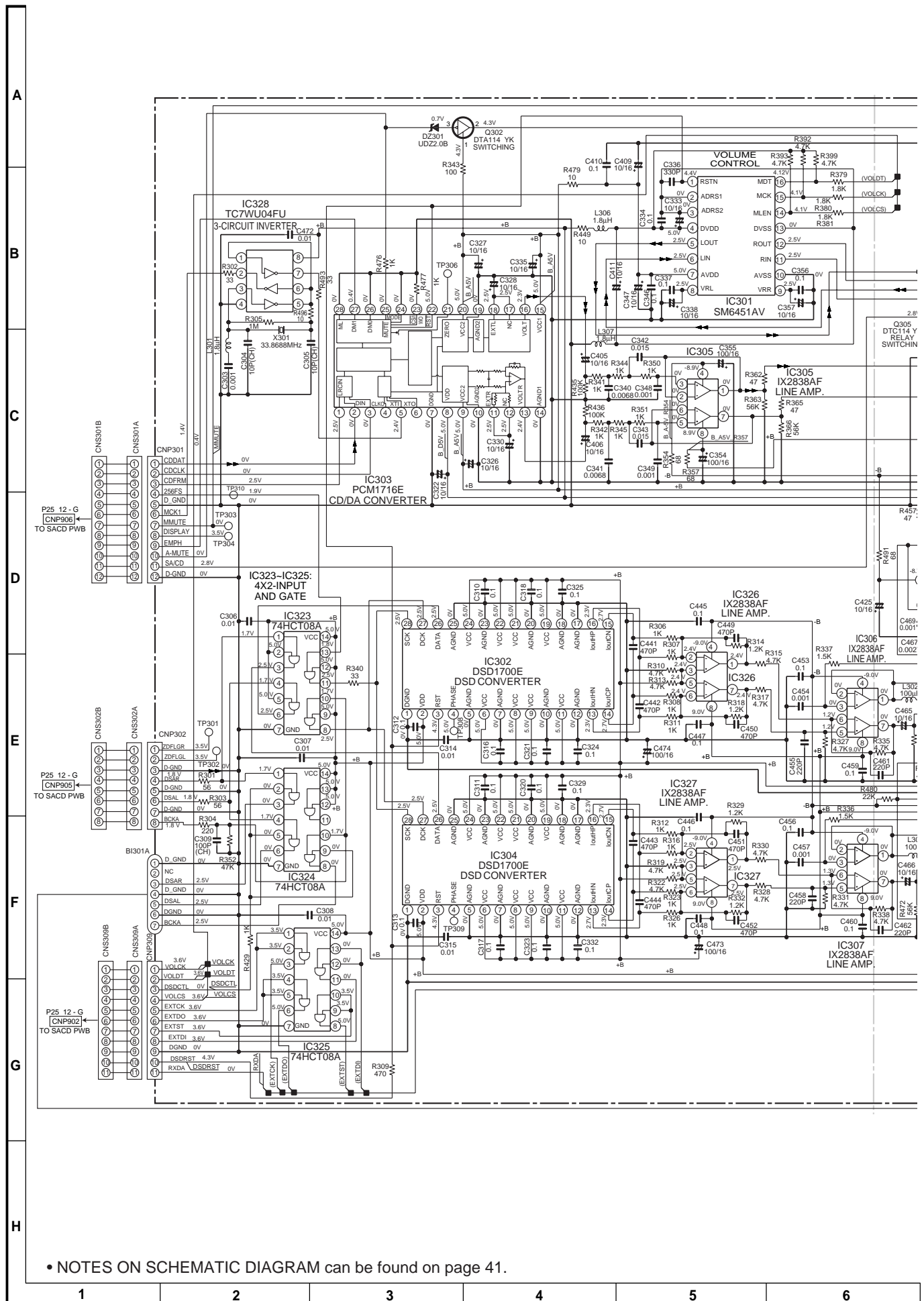


Figure 18 SCHEMATIC DIAGRAM (1/11)



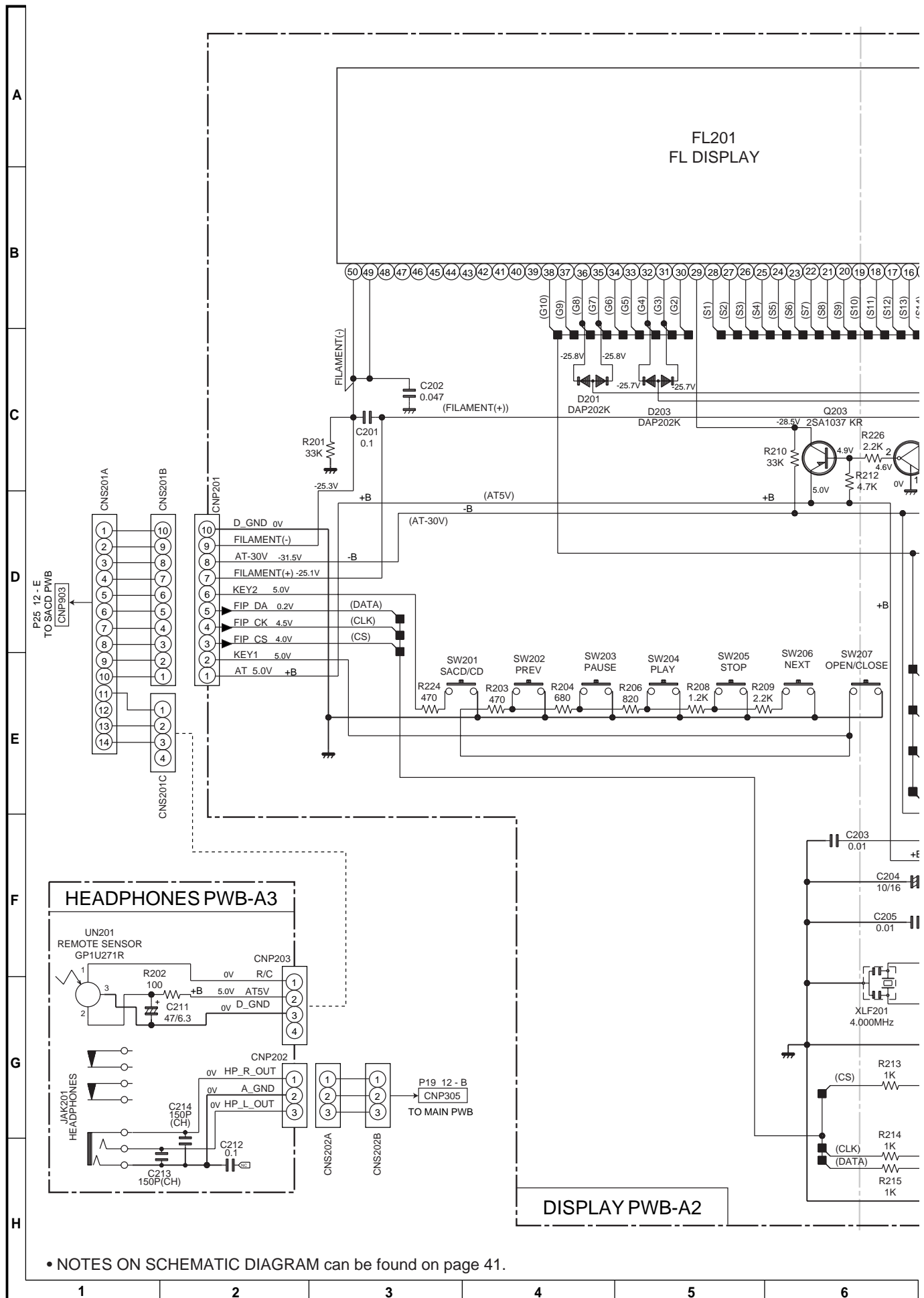


Figure 20 SCHEMATIC DIAGRAM (3/11)

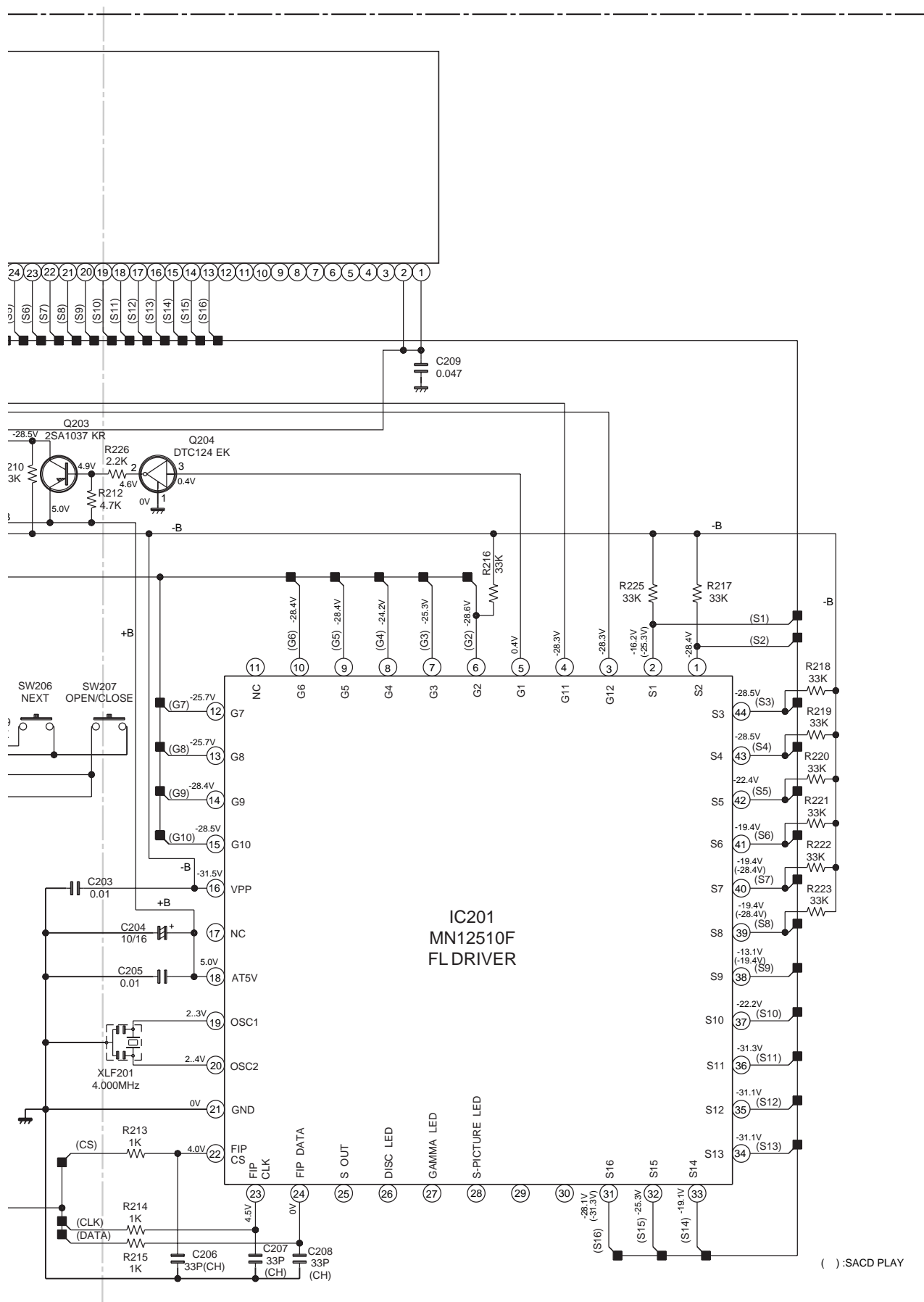
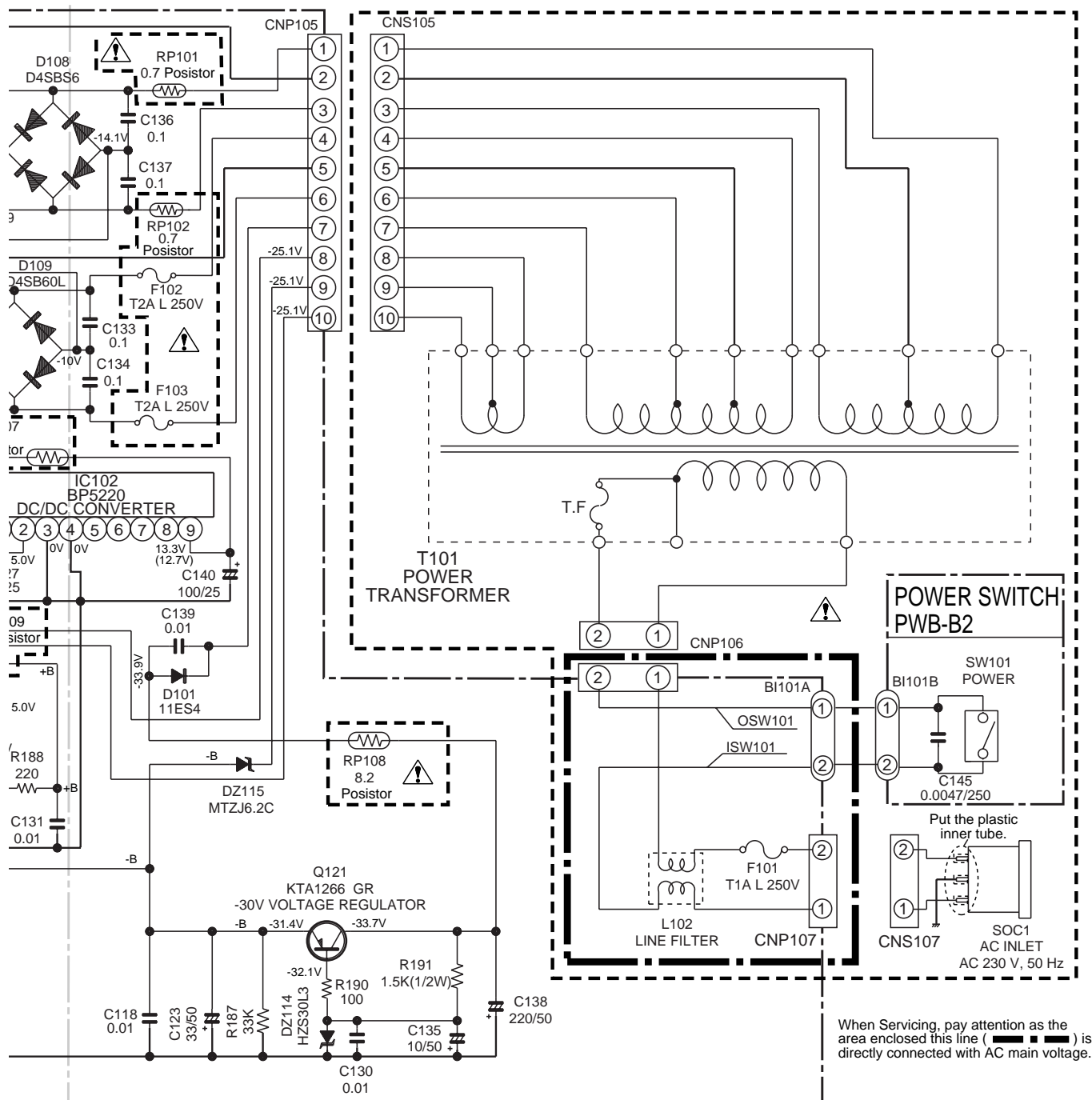


Figure 21 SCHEMATIC DIAGRAM (4/11)



- 22 -



**Figure 23 SCHEMATIC DIAGRAM (6/11)**

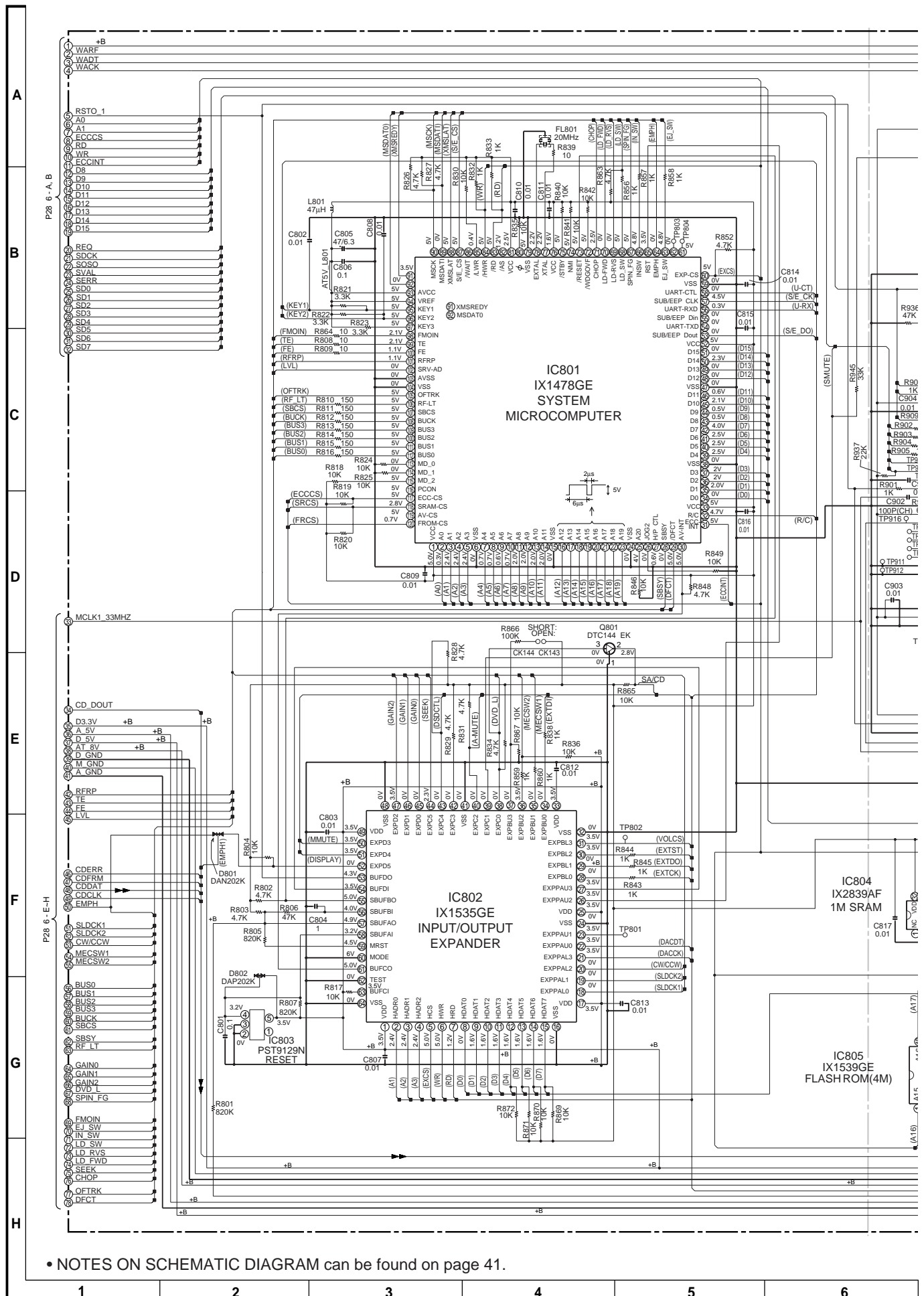


Figure 24 SCHEMATIC DIAGRAM (7/11)



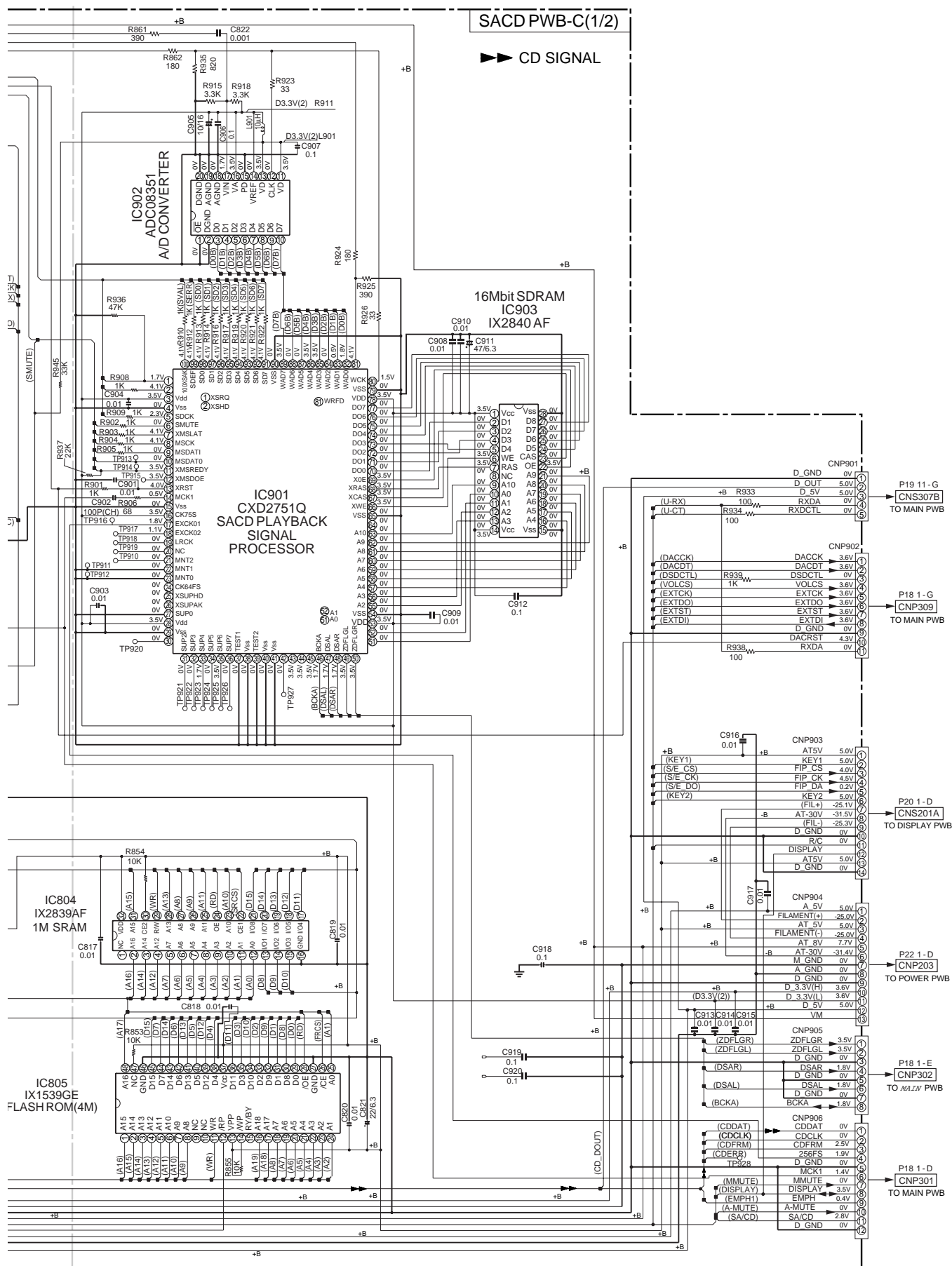


Figure 25 SCHEMATIC DIAGRAM (8/11)

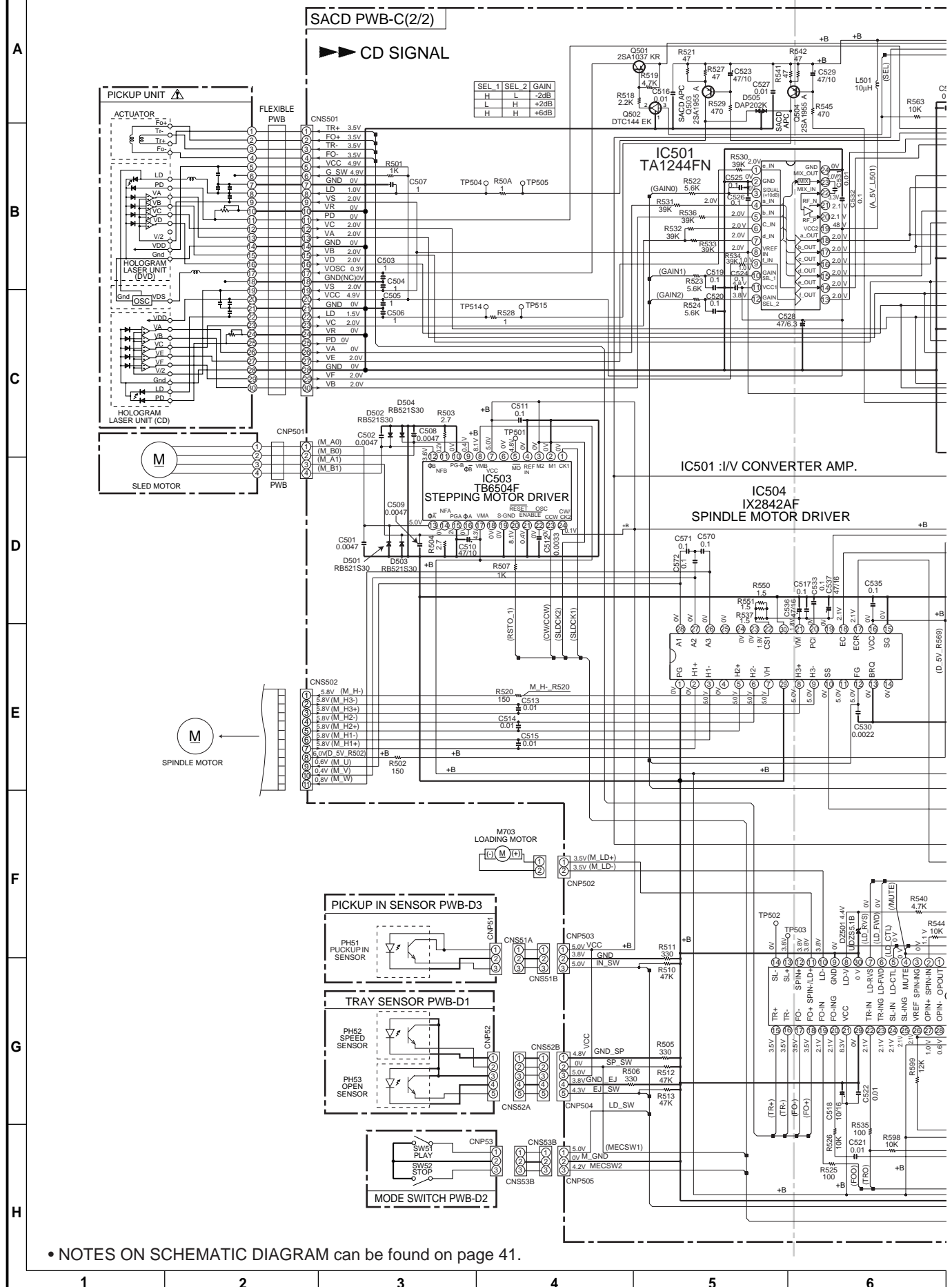


Figure 26 SCHEMATIC DIAGRAM (9/11)

P26 P27 P28

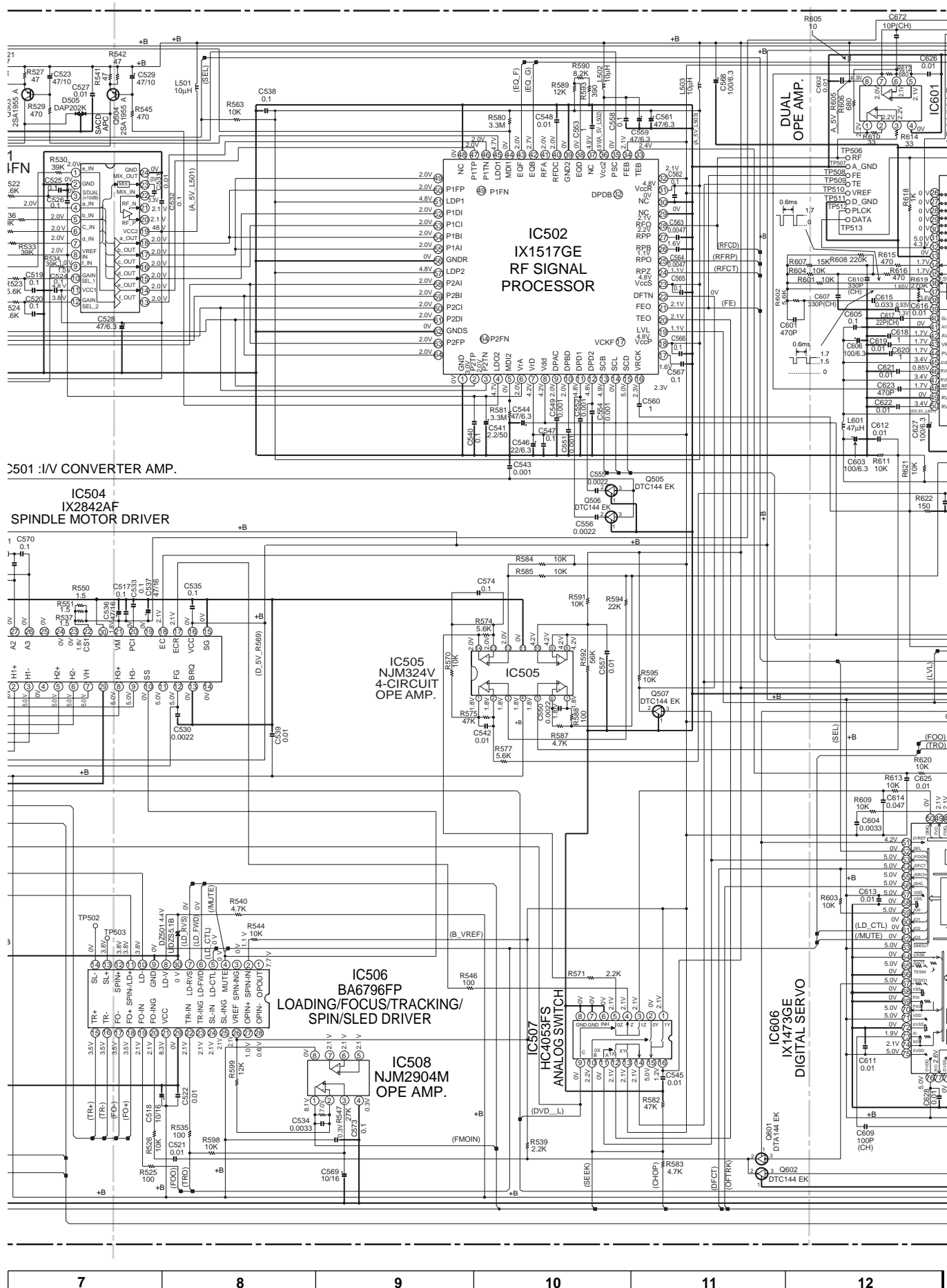


Figure 27 SCHEMATIC DIAGRAM (10/11)

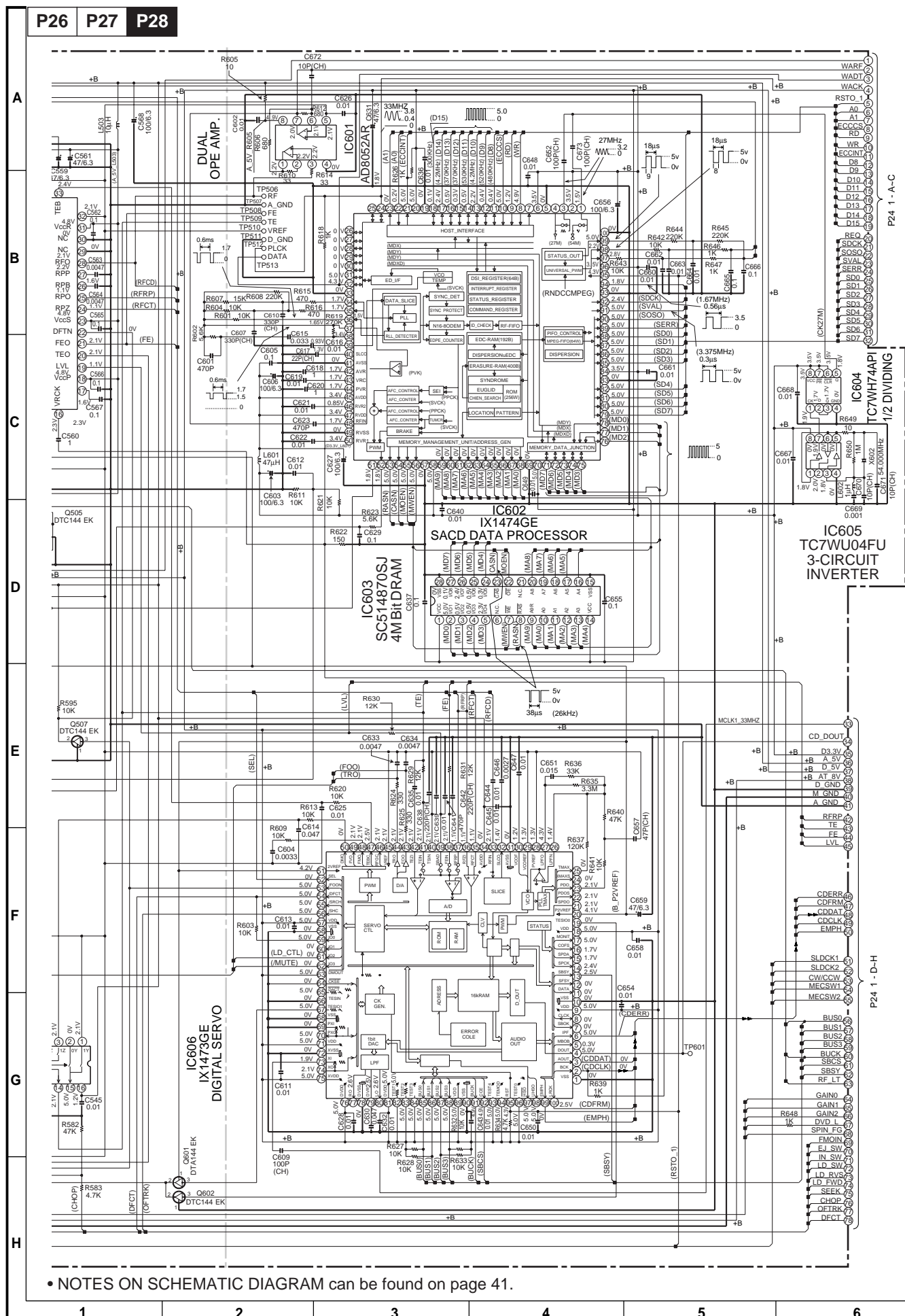
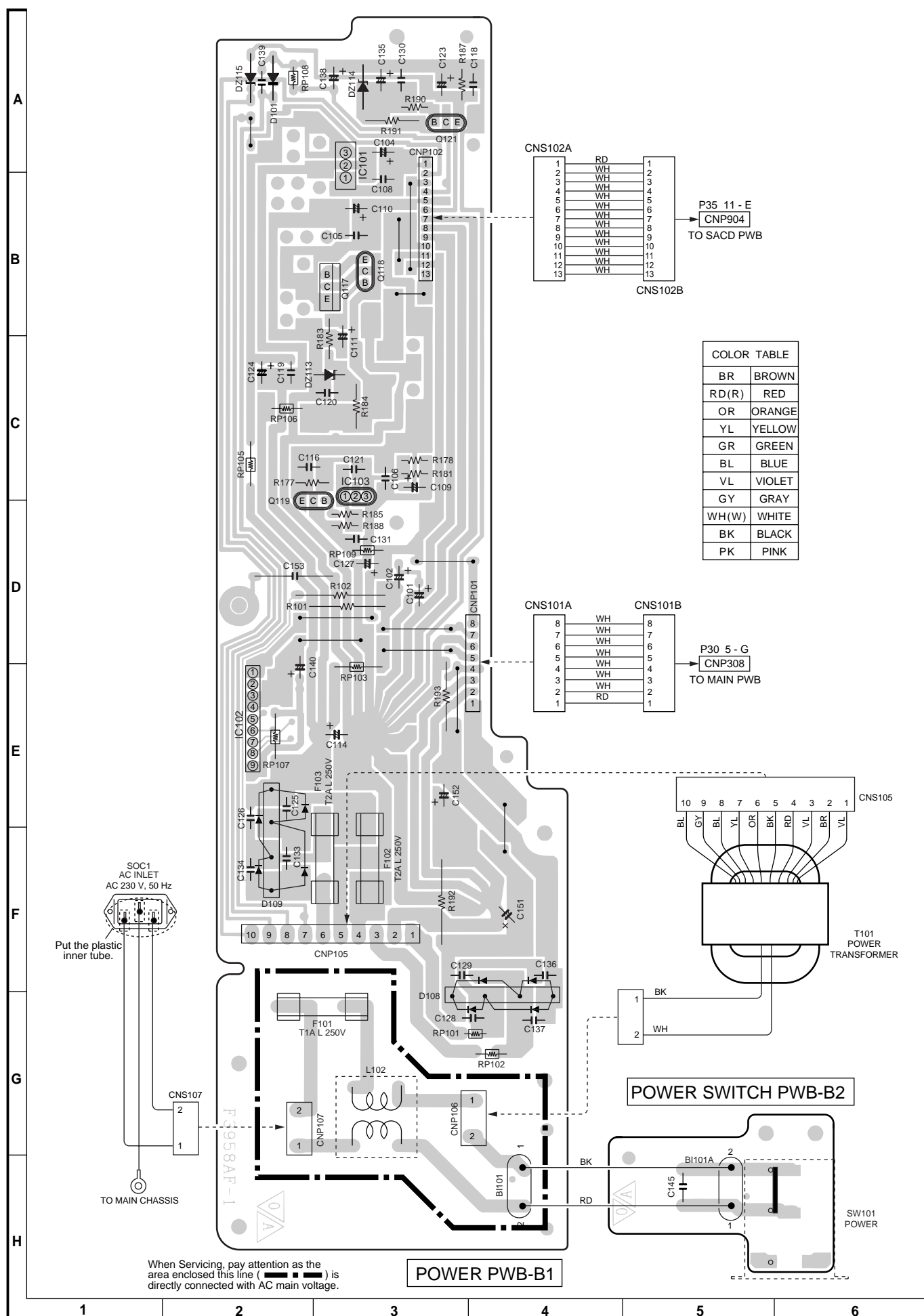


Figure 28 SCHEMATIC DIAGRAM (11/11)



**Figure 29 WIRING SIDE OF P.W.BOARD (1/12)**



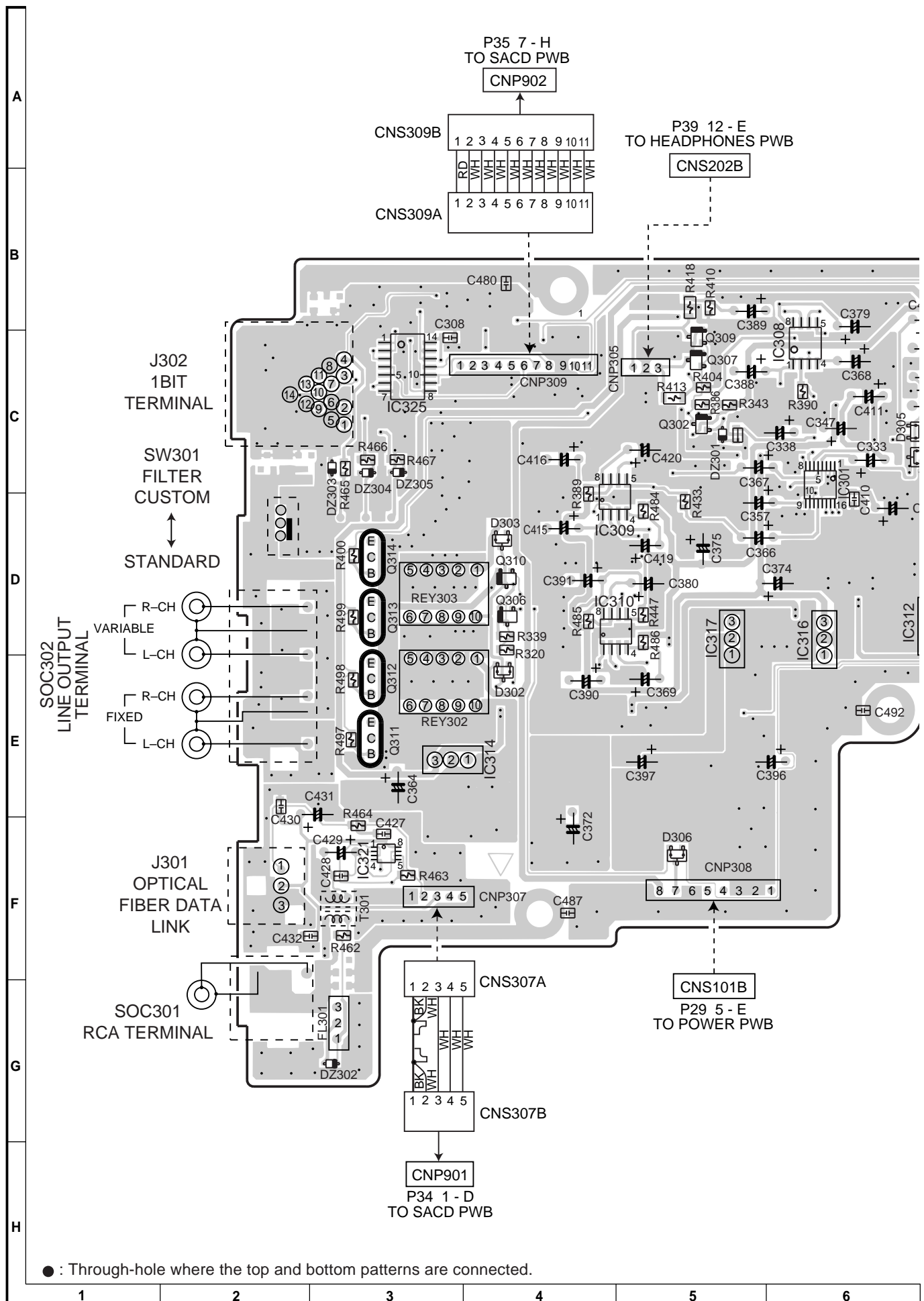


Figure 30 WIRING SIDE OF P.W.BOARD (2/12)

## MAIN PWB-A1 (TOP VIEW)

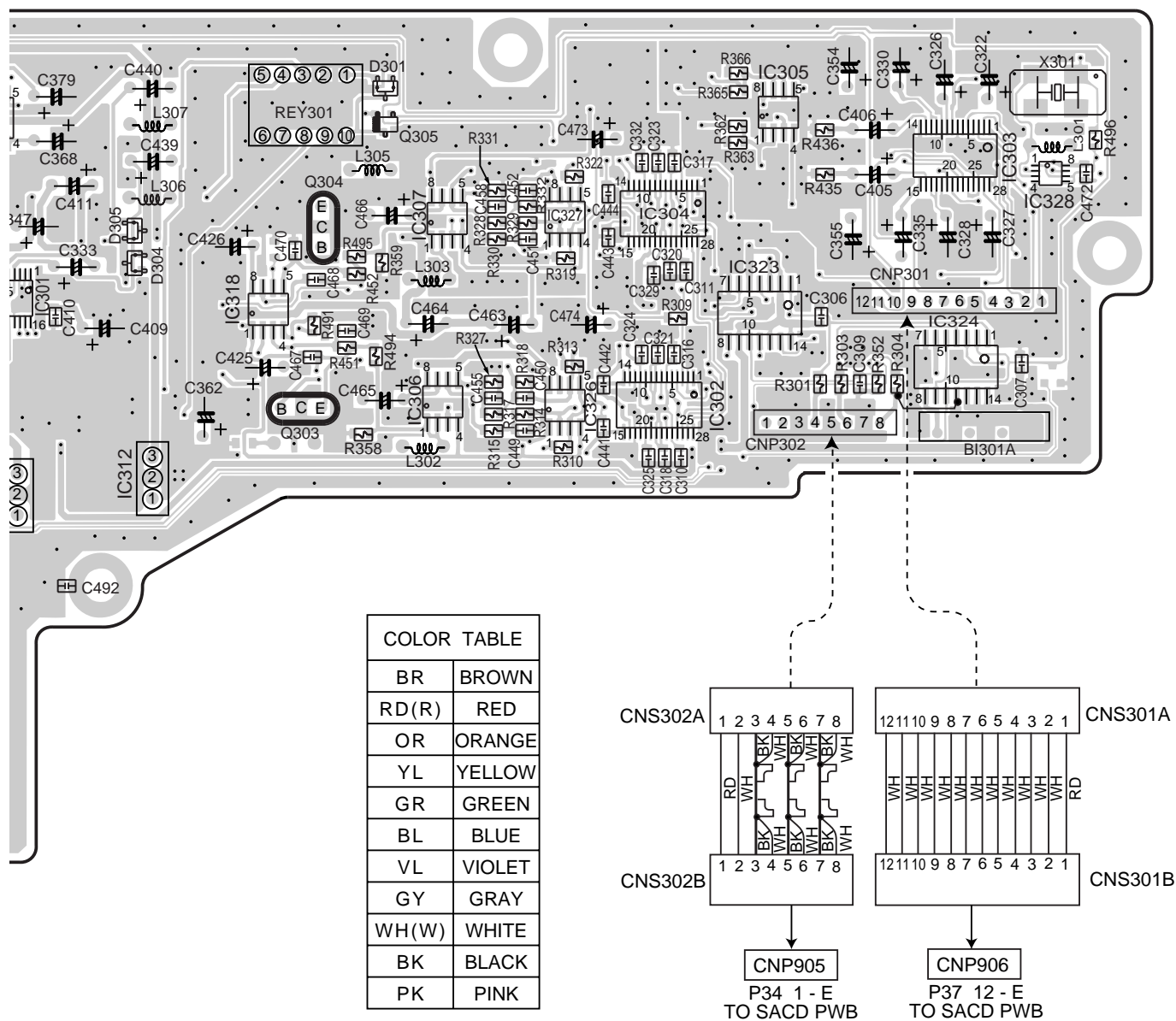


Figure 31 WIRING SIDE OF P.W.BOARD (3/12)

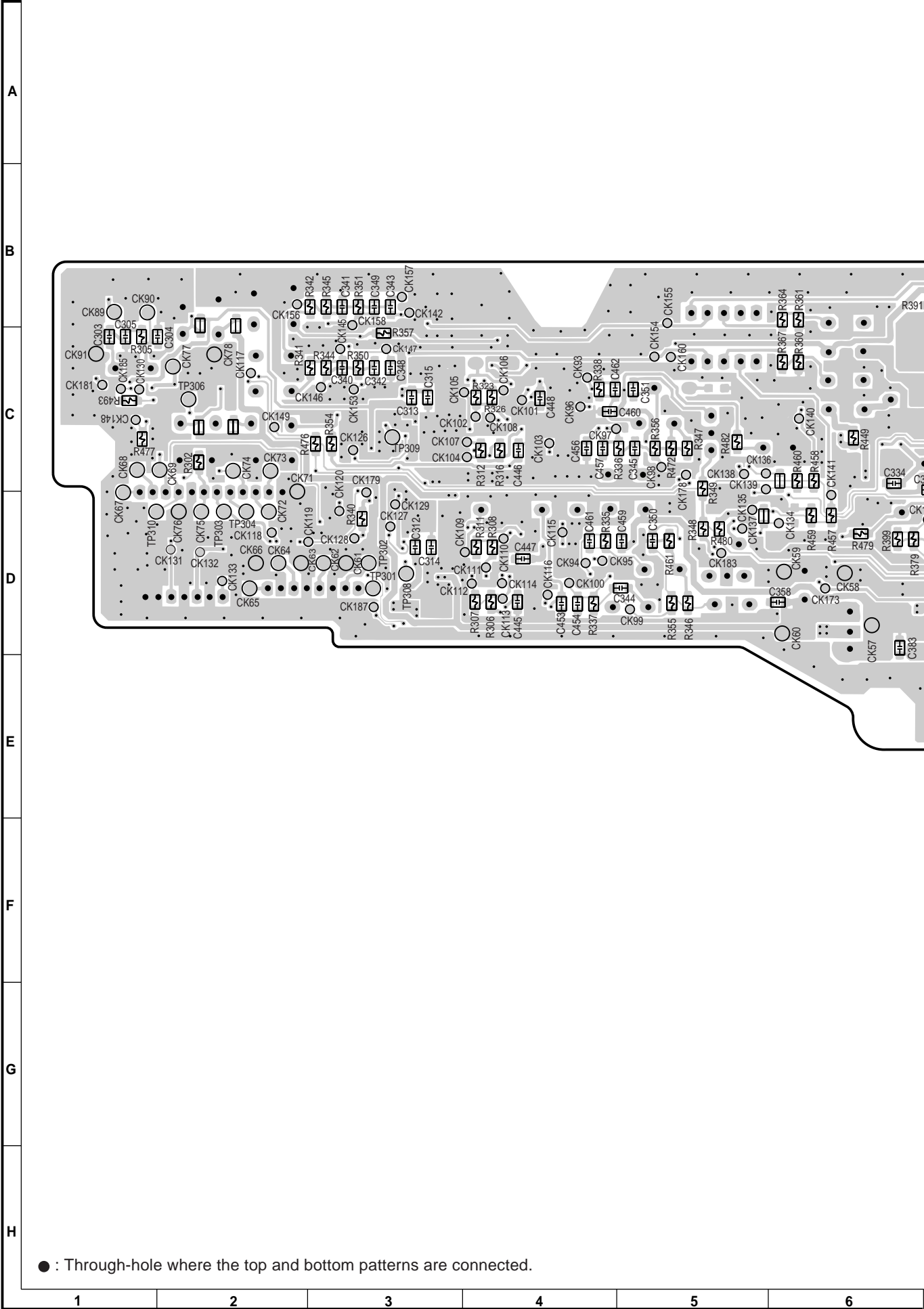
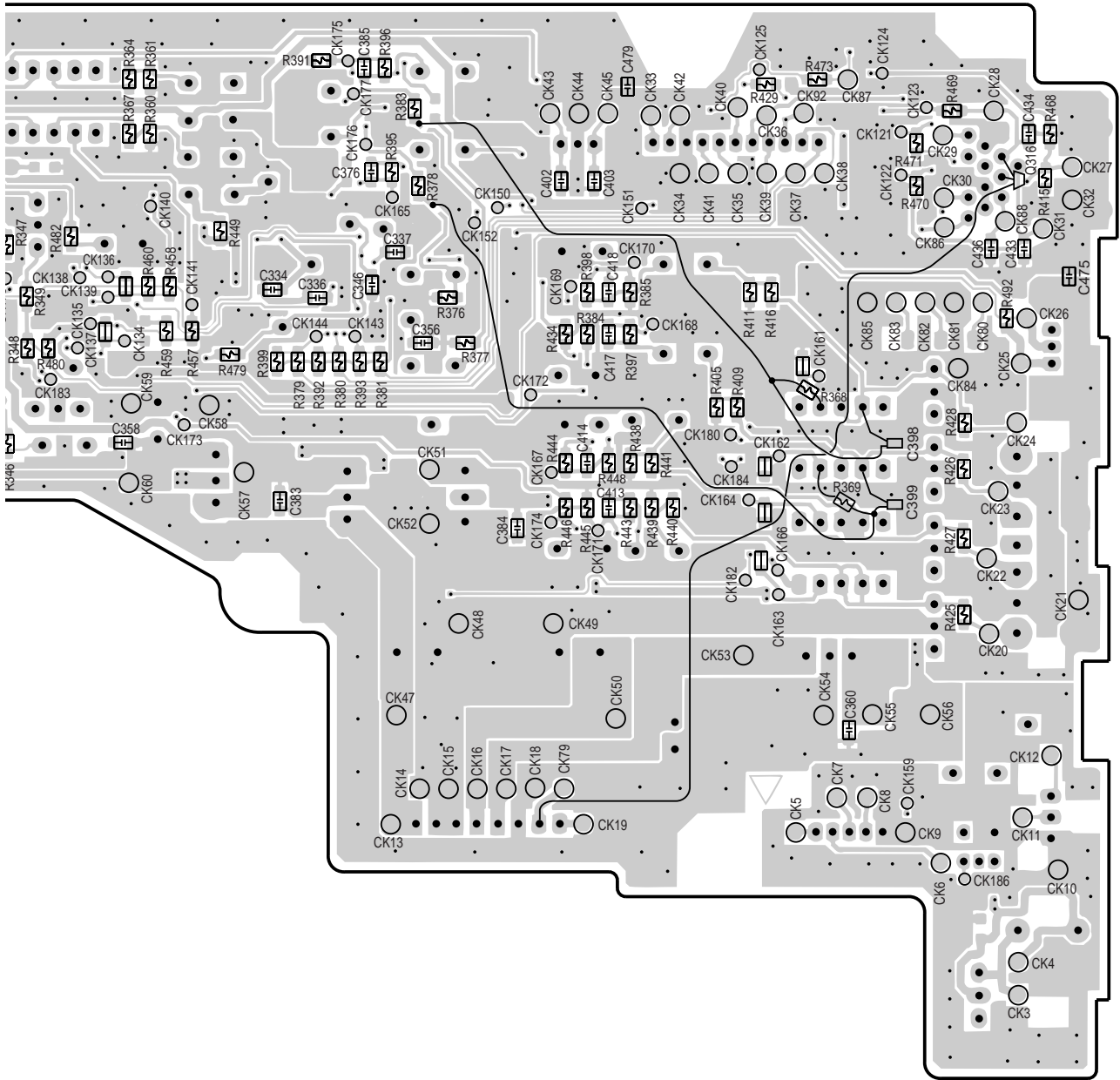


Figure 32 WIRING SIDE OF P.W.BOARD (4/12)



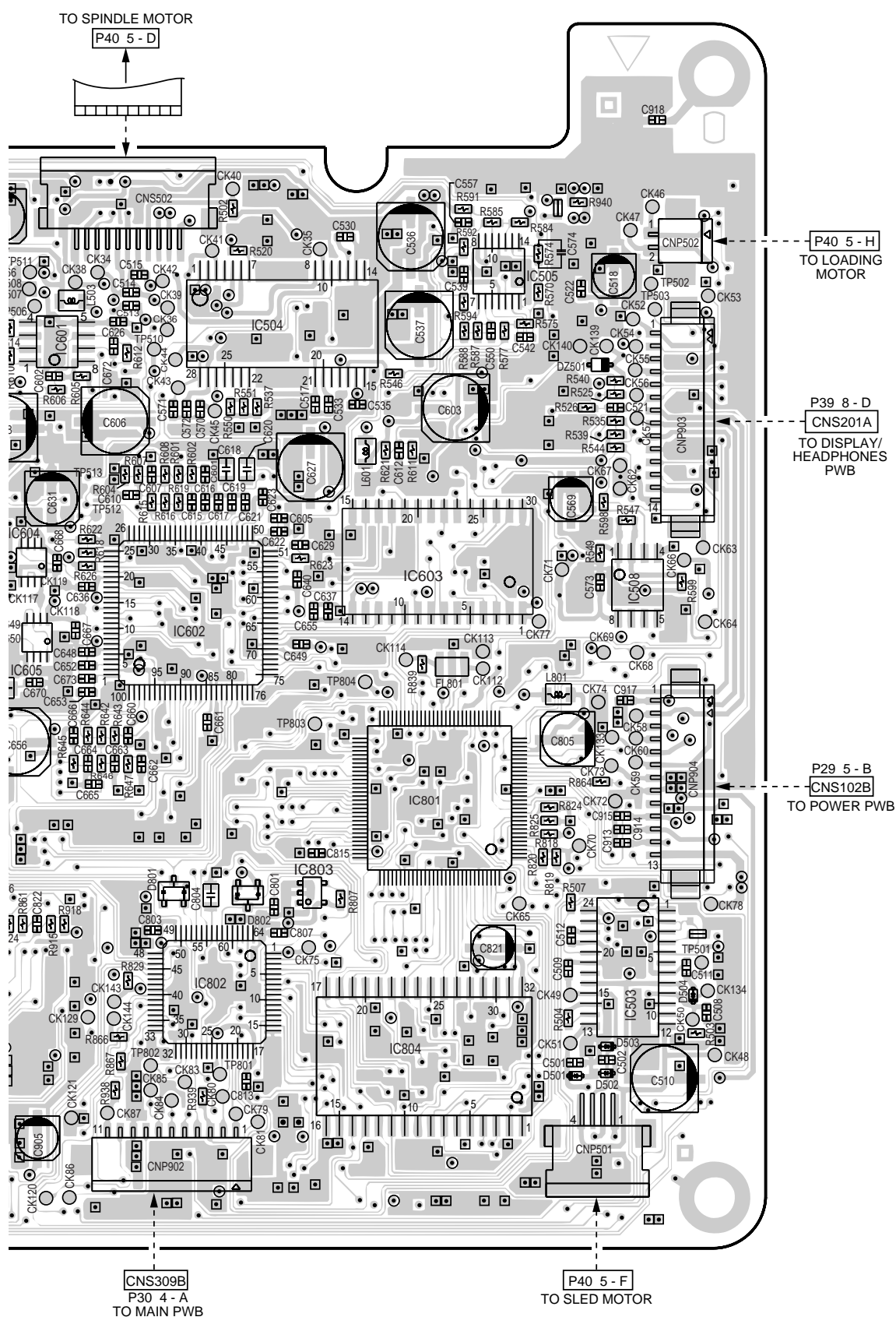
MAIN PWB-A1(BOTTOM VIEW)



7	8	9	10	11	12
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Figure 33 WIRING SIDE OF P.W.BOARD (5/12)

- 34 -



7	8	9	10	11	12
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Figure 35 WIRING SIDE OF P.W.BOARD (7/12)

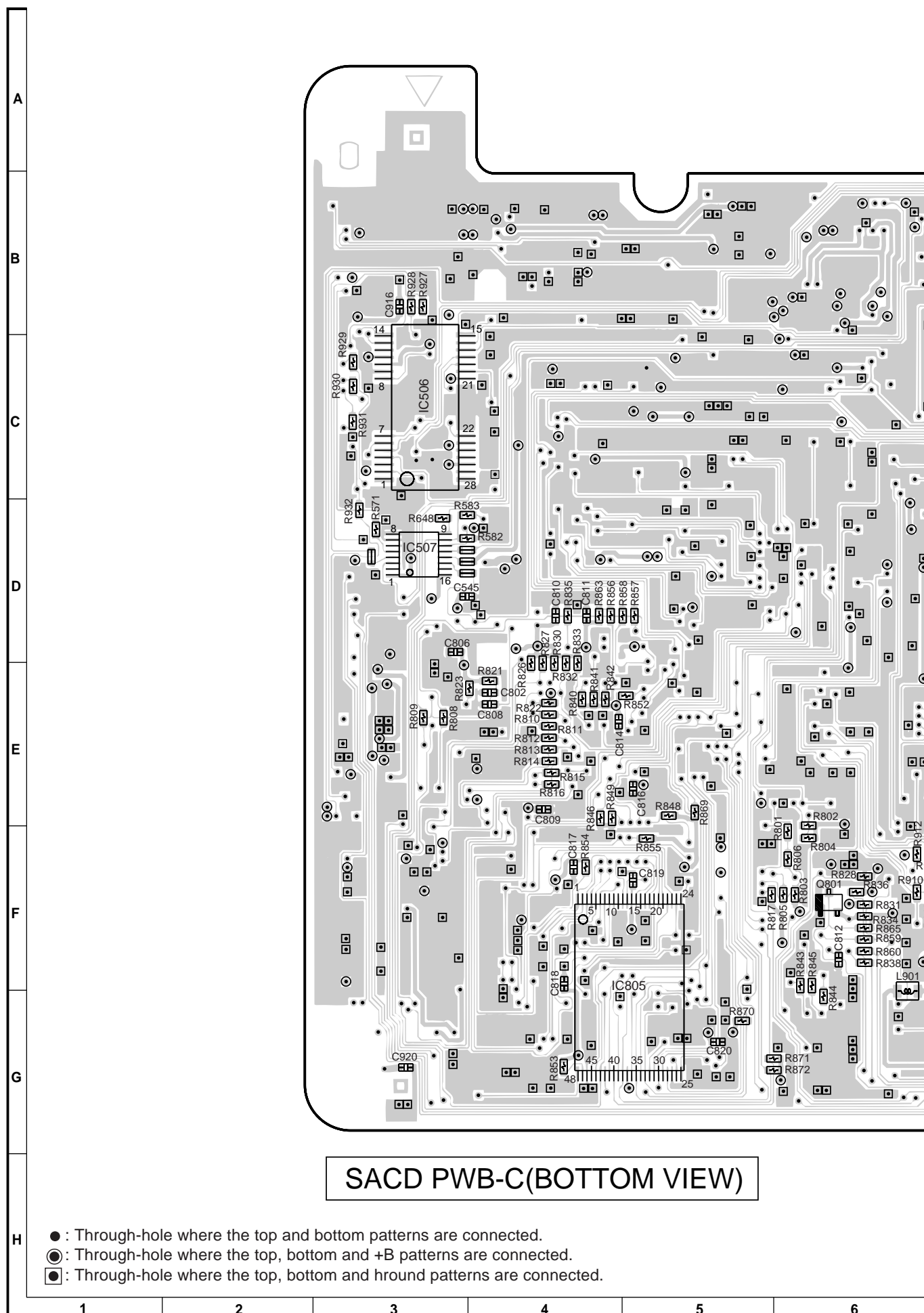
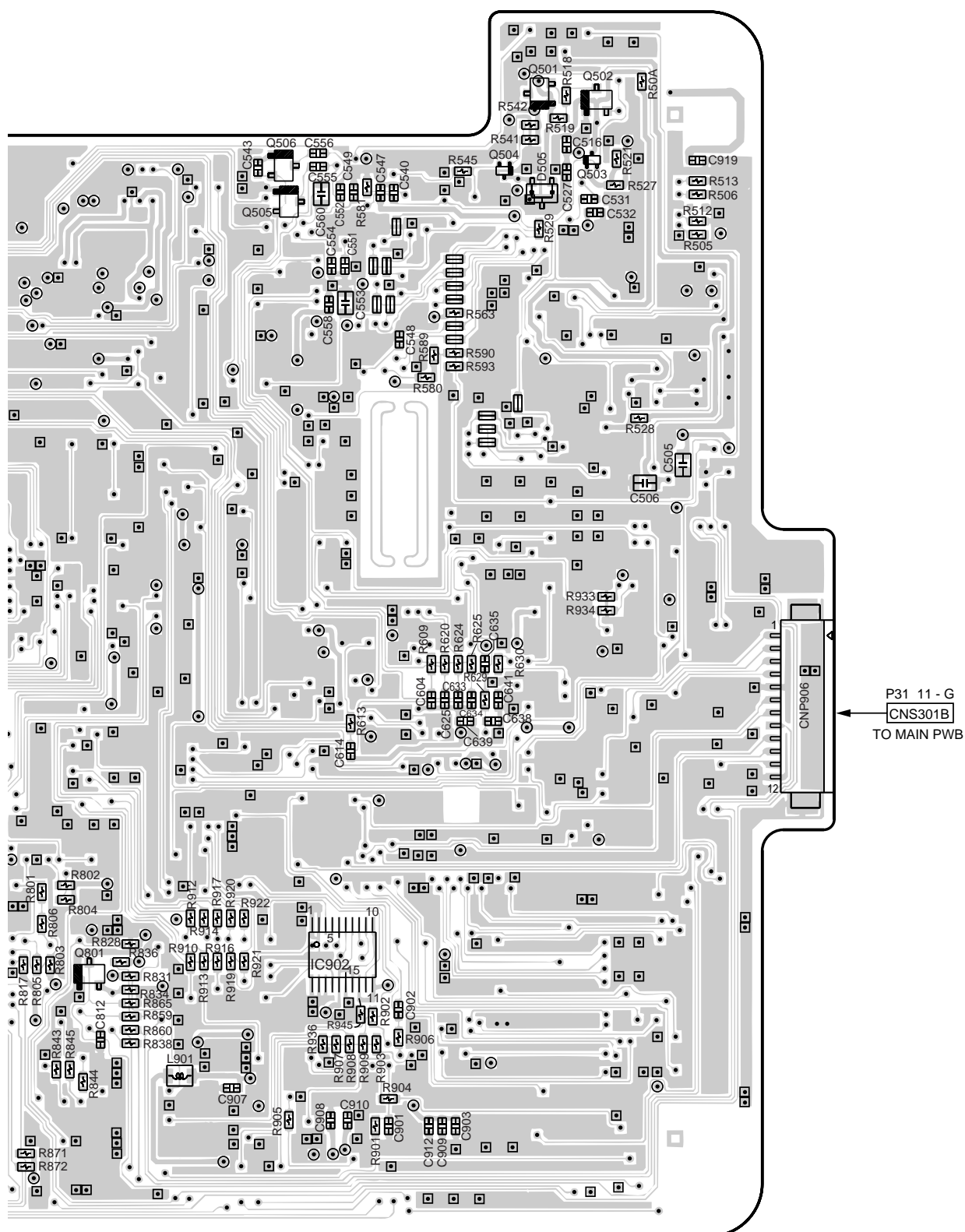


Figure 36 WIRING SIDE OF P.W.BOARD (8/12)

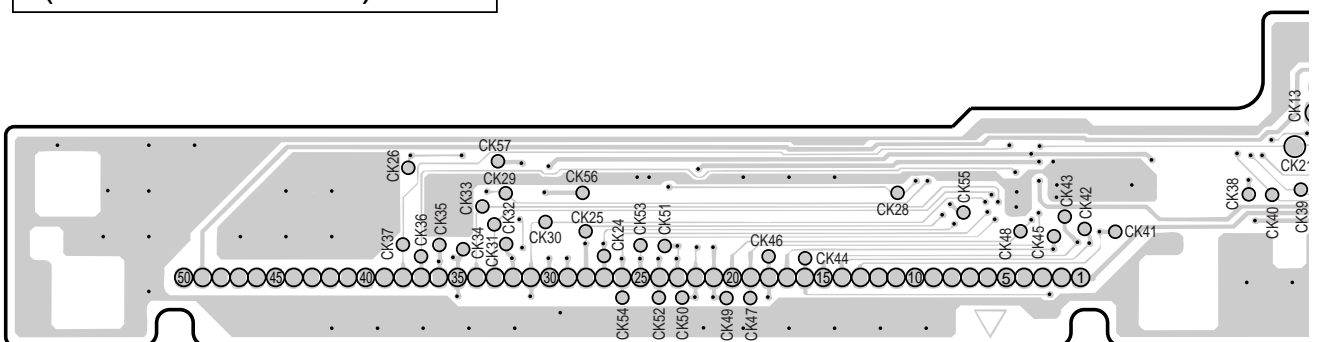




7	8	9	10	11	12
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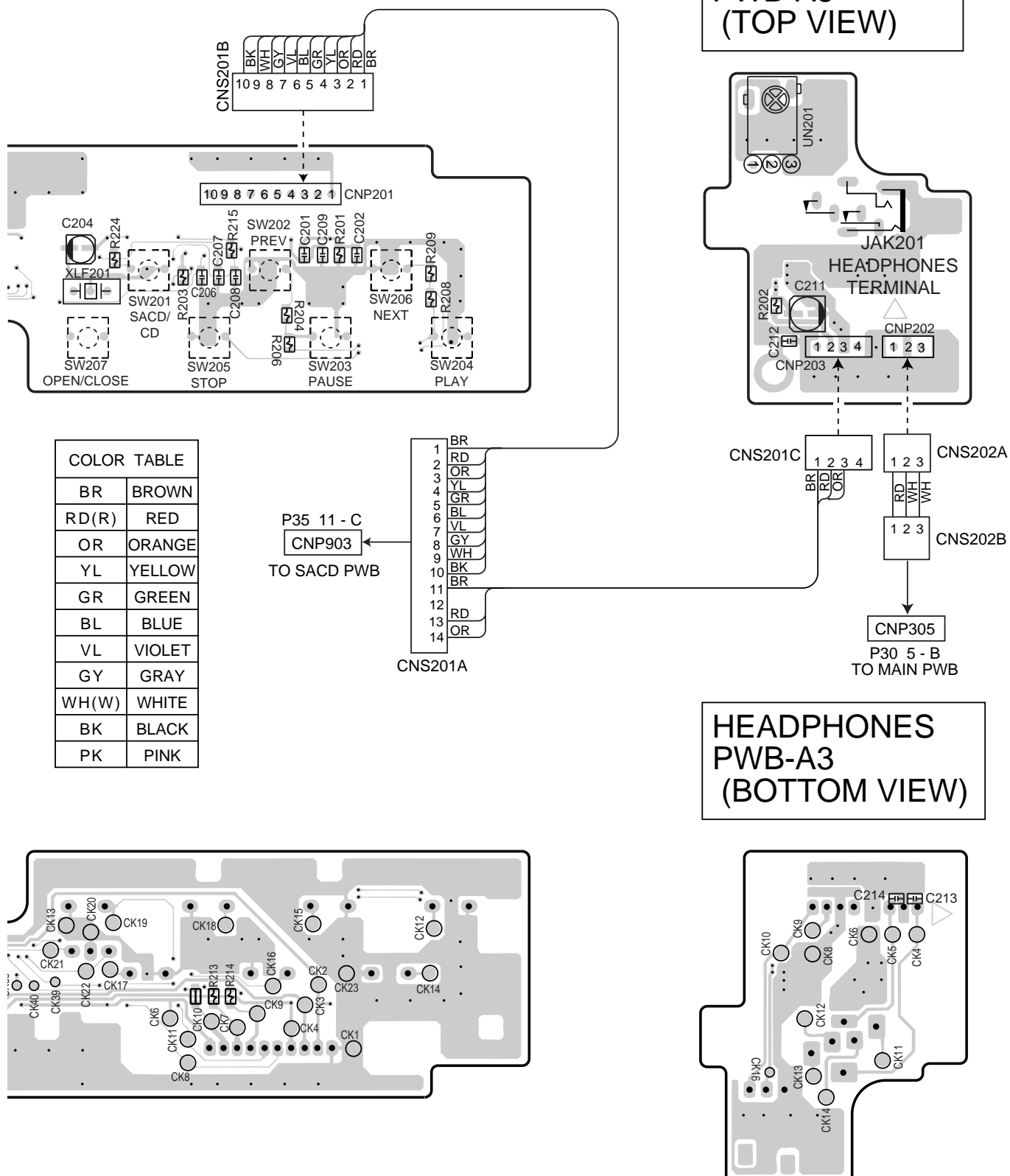
Figure 37 WIRING SIDE OF P.W.BOARD (9/12)

## DISPLAY PWB-A2 (BOTTOM VIEW)



1	2	3	4	5	6
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- 38 -



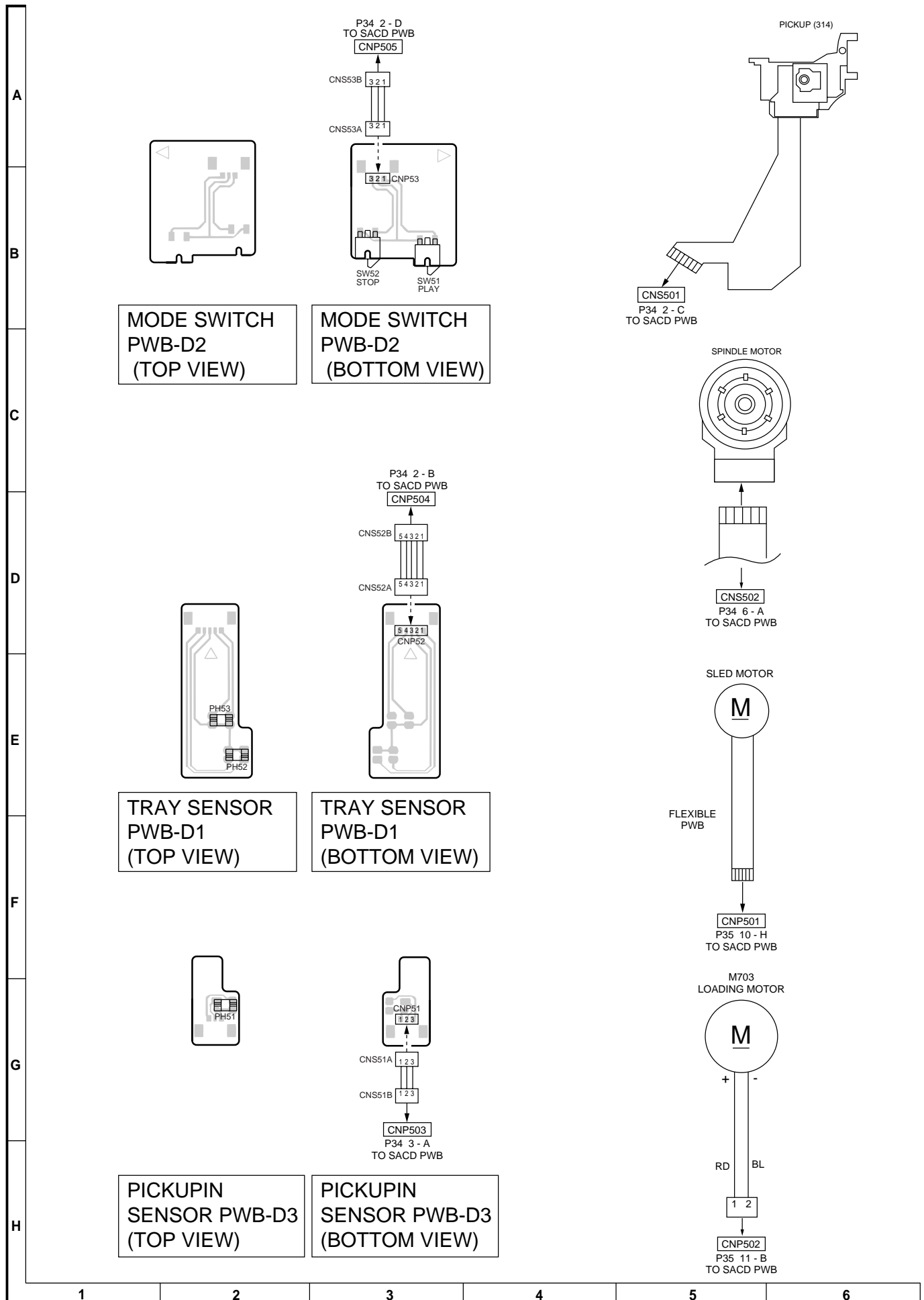



Figure 40 WIRING SIDE OF P.W.BOARD (12/12)



## NOTES ON SCHEMATIC DIAGRAM

- **Resistor:**  
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- **Capacitor:**  
To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.  
(CH), (TH), (RH), (UJ): Temperature compensation  
(ML): Mylar type  
(P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,  
( ) indicates AM  
< > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.  
( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with "⚠" (  ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW51	PLAY	ON—OFF
SW52	STOP	ON—OFF
SW101	POWER	ON—OFF
SW201	SACD/CD	ON—OFF
SW202	PREV	ON—OFF
SW203	PAUSE	ON—OFF
SW204	PLAY	ON—OFF
SW205	STOP	ON—OFF
SW206	NEXT	ON—OFF
SW207	OPEN/CLOSE	ON—OFF
SW301	FILTER	ON—OFF

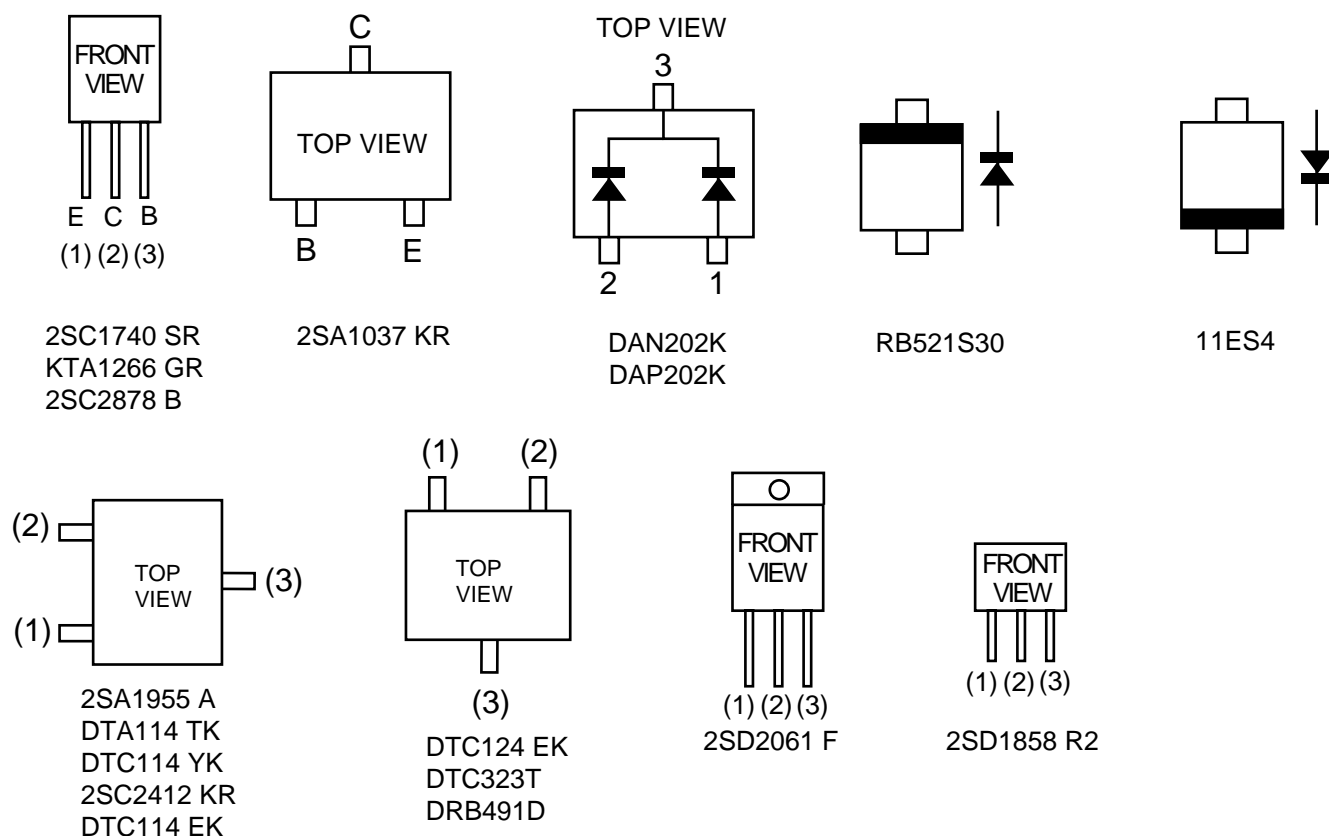


Figure 41 TYPES OF TRANSISTOR AND DIODE

## FUNCTION TABLE OF IC

## IC201 VHiMN12510F-1: FL Driver (MN12510F)

Pin No.	Terminal Name	Name	Input/Output	Function
18 21	VDD VSS	Power supply terminal	Input	VDD: +5V $\pm$ 0.5V VSS: 0V
16	VPP	FLP driver power supply	Input	VPP: VDD - 35V Applies voltage to pull-down resistor SEG0-7 and DGT0-7.
19 20	OSCI OSCO	Clock input Clock output	Input	Oscillation input terminal ) Used to connect ceramic oscillation Oscillation output terminal ) terminal. To OSCI in case of clock input from outside by separately excited oscillation.
22	NCS	Chip select input	Input	L: Serial input permitted H: Serial input prohibited
23 24	SCK SDI	Serial clock input Serial data input	Input Input	Clock input for serial transfer Serial data input: Command data, address data, indication data, control register data or port output data is input.
25*	SDO	Serial data output	Output	Serial data output: Key scan input data or port input data is output.
26*-30*	P30-P34	Key scan input	Input/Output	5 bits. Can be switched to key scan input, general-purpose input or general-purpose output by bit unit. The pull-down resistor is between VSS terminals. General-purpose output: high current output for driving LED
31-38	SEG0-SEG7	High tension output	Output	8-bit high tension output port. (Segment output) Output type is Pch open drain, and pull-down resistor is built in between VPP terminals.
39-42	P10-P13 SEG8-SEG11	High tension output	Output	4-bit high tension output port. Can be switched to general-purpose output/segment output by bit unit. Output type is Pch open drain.
43,44, 1,2	P20-P23 DGT12/SEG15- DGT15/SEG12	High tension output	Input/Output	4-bit high tension output port. Can be switched to general-purpose input/general-purpose output/ segment output/digit output by bit unit. Output type is Pch open drain. High current output for driving LED
3-6	P00-P03 DGT8-DGT11	High tension output	Output	4-bit high tension output port. Can be switched to general-purpose output/digit output by bit unit. Output type is Pch open drain.
7-10, 12-15	DGT0-DGT7	High tension output	Output	8-bit high tension output port. (Digit output) Output type is Pch open drain, and pull-down resistor is built in between VPP terminals.
11*	NC	—	—	Not used.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

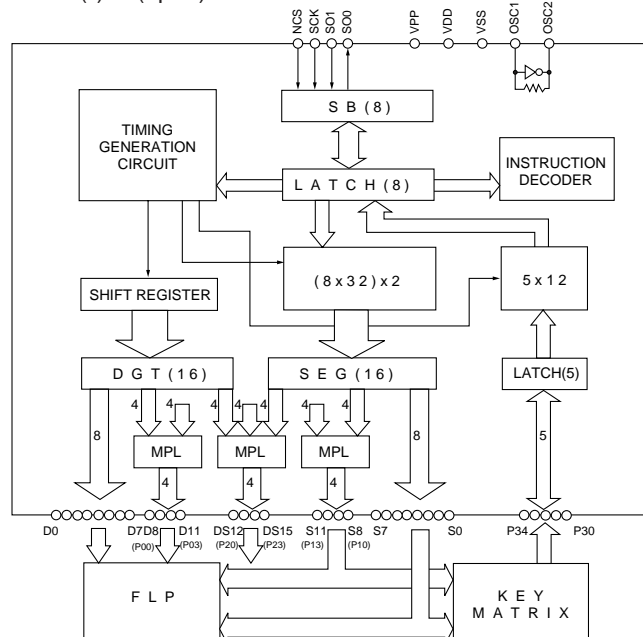
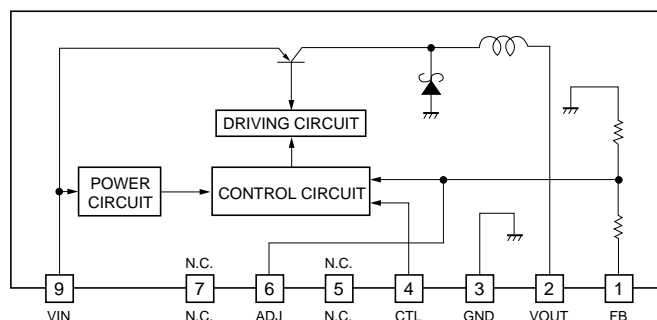


Figure 42 BLOCK DIAGRAM OF IC

**IC102 VHiBP5220++-1: DC/DC Converter (BP5220)**

Pin No.	Terminal Name	Function
1	FB	Feedback terminal
2	VOOUT	Output terminal
3	GND	GND
4	CTL	ON, OFF terminal
5*	N.C.	Not used
6*	ADJ	Output voltage fine adjustment terminal
7*	N.C.	Not used
8*	—	Cut pin
9	VIN	Input terminal

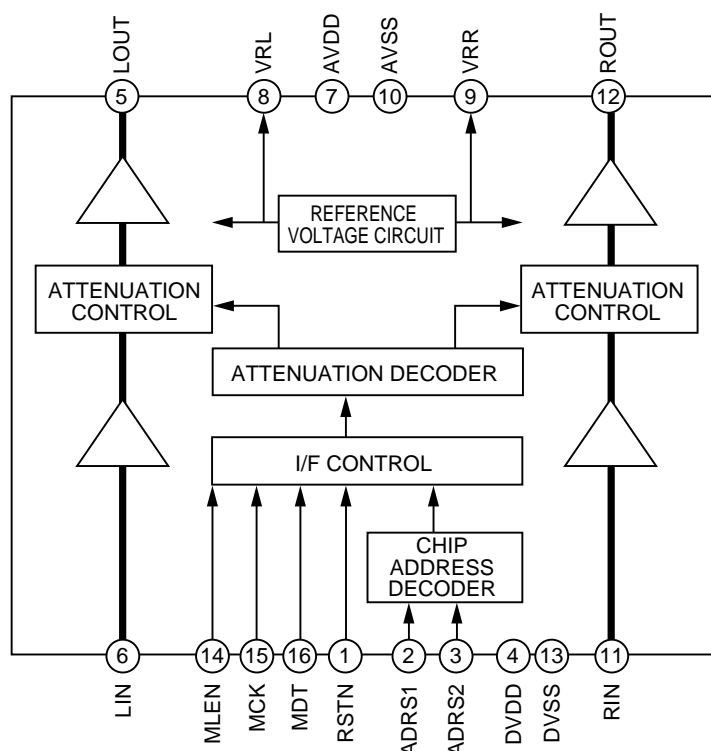
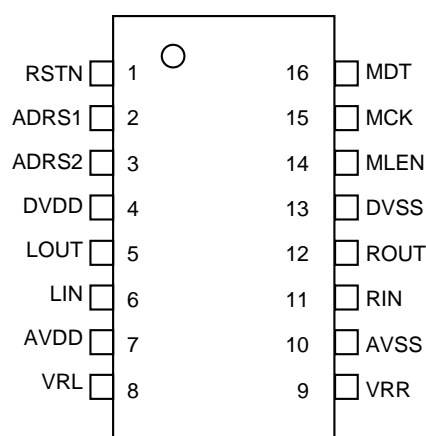
In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.



**Figure 43-1 BLOCK DIAGRAM OF IC**

**IC301 VHiSM6451AV-1: Volume Control (SM6451AV)**

Pin No.	Terminal Name	Input/Output	Function
1	RSTN	Input terminal with pull-up	System reset input (Reset at L)
2	ADRS1	Input terminal with pull-up	Chip address set terminal 1
3	ADRS2	Input terminal with pull-up	Chip address set terminal 2
4	DVDD	—	Digital VDD
5	LOUT	Output	L channel audio output
6	LIN	Input	L channel audio input
7	AVDD	—	Analog VDD
8	VRL	Output	Capacity connecting terminal for L channel reference voltage ( $VDD/2$ )
9	VRR	Output	Capacity connecting terminal for R channel reference voltage ( $VDD/2$ )
10	AVSS	—	Analog VSS
11	RIN	Input	R channel audio input
12	ROUT	Output	R channel audio output
13	DVSS	—	Digital VSS
14	MLEN	Input terminal with pull-up	Microcomputer latch enable input
15	MCK	Input terminal with pull-up	Microcomputer clock input
16	MDT	Input terminal with pull-up	Microcomputer data



**Figure 43-2 BLOCK DIAGRAM OF IC**

## DX-SX1H

### IC302 VHiDSD1700E-1: DSD Converter (DSD1700E)

Pin No.	Terminal Name	Input/Output	Function
1	DGND	—	Digital ground
2	VDD	—	Digital power supply, +5V
3	$\overline{\text{RST}}$	Input	Reset control input, active at LOW
4*	PHASE	Input	Select data phase (LOW: through, HIGH: inversion)
5	AGND	—	Analog ground
6	VCC	—	Analog power supply, +5V
7	AGND	—	Analog ground
8,9	VCC	—	Analog power supply, +5V
10	AGND	—	Analog ground
11	VCC	—	Analog power supply, +5V
12	AGND	—	Analog ground
13	IoutHN	Output	Analog output from DAC (Hot negative)
14	IoutCP	Output	Analog output from DAC (Cold positive)
15	IoutCN	Output	Analog output from DAC (Cold negative)
16	IoutHP	Output	Analog output from DAC (Hot positive)
17,18	AGND	—	Analog ground
19	VCC	—	Analog power supply, +5V
20	AGND	—	Analog ground
21,22	VCC	—	Analog power supply, +5V
23	AGND	—	Analog ground
24	VCC	—	Analog power supply, +5V
25	AGND	—	Analog ground
26	DATA	Input	Direct stream digital data input
27	DCK	Input	Data clock input
28	SCK	Input	System clock input

1	DGND	SCK	28
2	VDD	DCK	27
3	$\overline{\text{RST}}$	DATA	26
4	PHASE	AGND	25
5	AGND	Vcc	24
6	Vcc	AGND	23
7	AGND	Vcc	22
8	Vcc	Vcc	21
9	Vcc	AGND	20
10	AGND	Vcc	19
11	Vcc	AGND	18
12	AGND	AGND	17
13	IoutHN	IoutHP	16
14	IoutCP	IoutCN	15

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

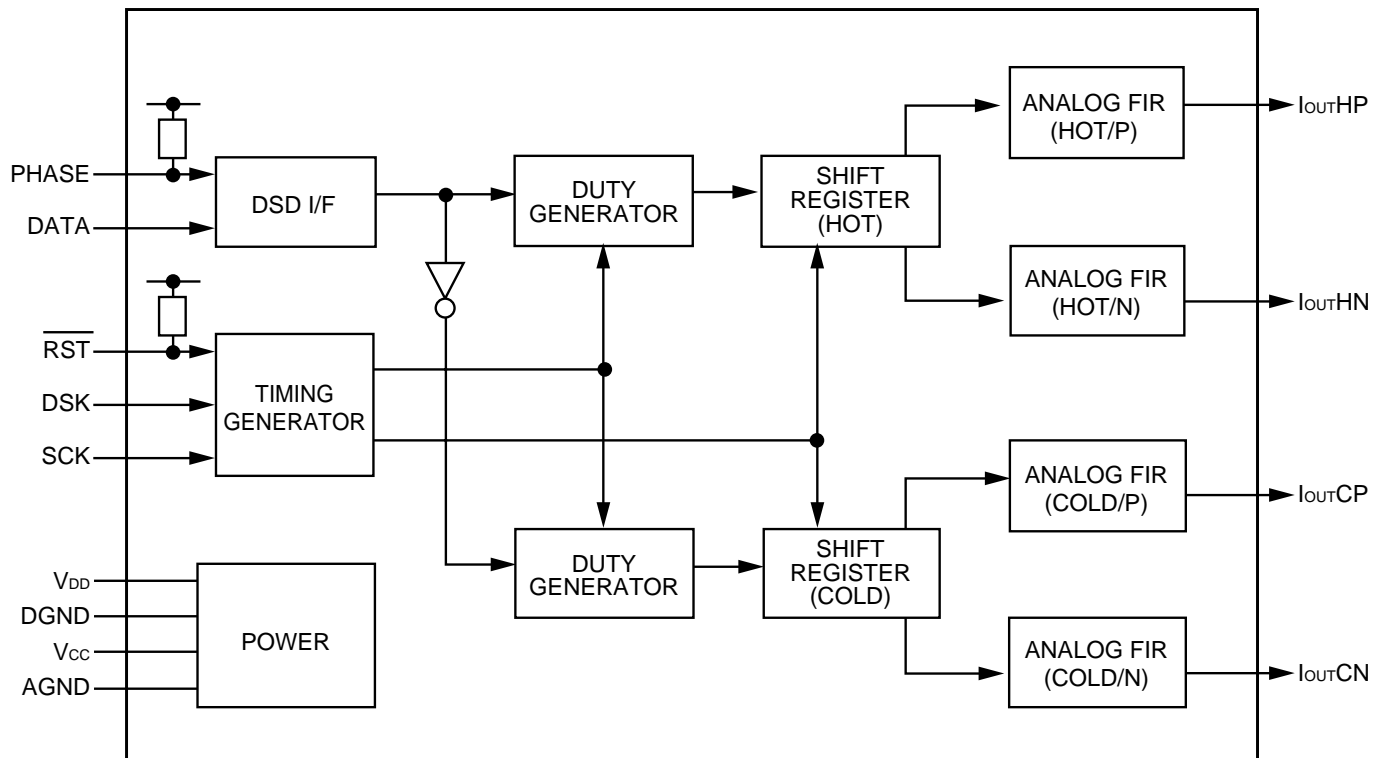
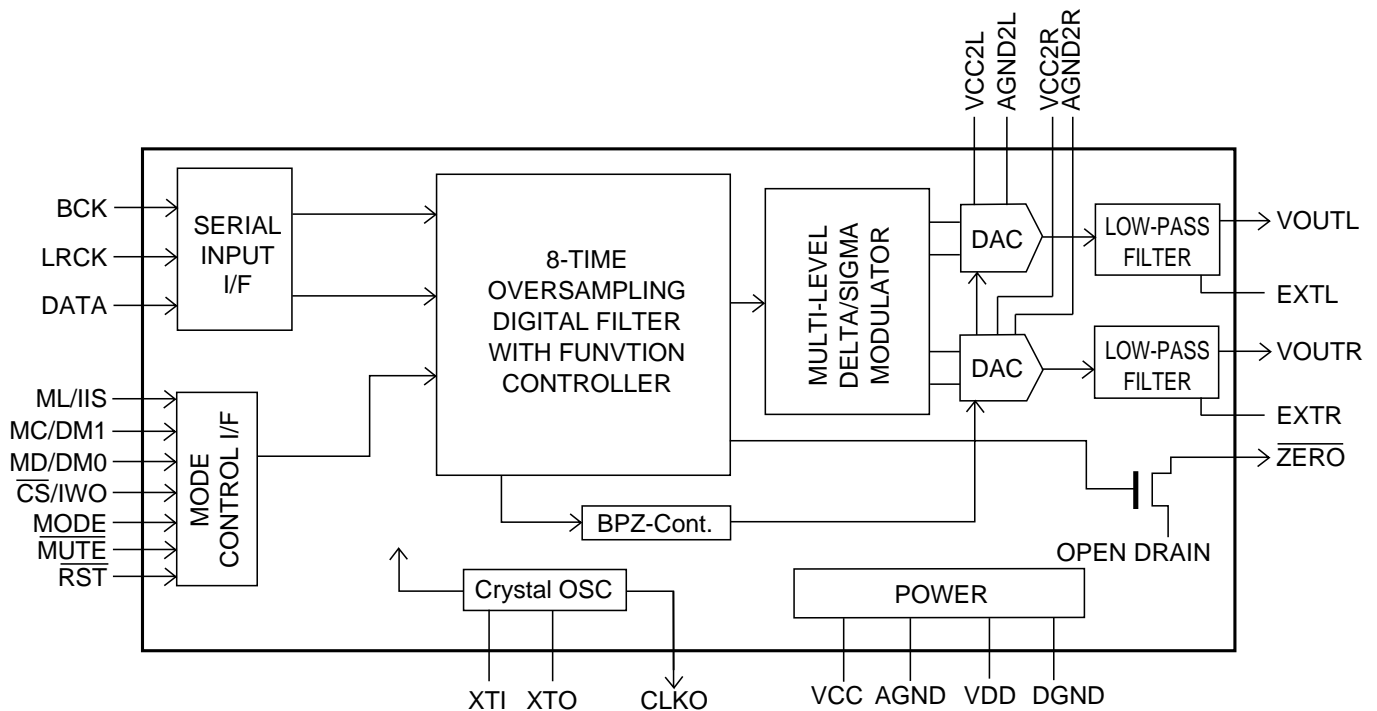


Figure 44 BLOCK DIAGRAM OF IC

**IC303 VHiPCM1716E-1: CD D/A Converter (PCM1716E)**

Pin No.	Terminal Name	Input/Output	Function
1	LRCK	Input	LRCK clock input (fs)
2	DATA	Input	Data input
3	BCK	Input	Data bit clock input
4*	CLKO	Output	System clock, buffered output
5	XTI	Input	Connection of crystal transmitter or external clock input
6*	XTO	Output	Connection of crystal transmitter
7	DGND	—	Digital GND
8	VDD	—	Digital power supply, +5V
9	VCC2R	—	Analog power supply, +5V
10	AGND2R	—	Analog GND
11	EXTR	Output	Rch, analog output amplifier common
12	NC	—	Not used
13	VOUTr	Output	Rch, analog voltage output
14	AGND1	—	Analog GND
15	VCC1	—	Analog power supply, +5V
16	VOUtl	Output	Lch, analog voltage output
17	NC	—	Not used
18	EXTL	Output	Lch, analog output amplifier common
19	AGND2L	—	Analog GND
20	VCC2L	—	Analog power supply, +5V
21*	ZERO	Output	Zero data flag
22	RST	Input	Reset. While this pin is in "L", DF and delta-sigma modulator are in the reset condition.
23	CS/IWO	Input	Chip select/input format select
24	MODE	Input	Mode control select (H: software, L: hardware)
25	MUTE	Input	Mute control
26	MD/DM0	Input	Mode control data/de-emphasis select 1
27	MC/DM1	Input	Mode control BCK/de-emphasis select 2
28	ML/IIS	Input	Mode control latch/input format select

**Figure 45 BLOCK DIAGRAM OF IC**

## DX-SX1H

### IC502 RH-IX1517GEZZ: RF Signal Processor (IX1517GE) (1/2)

Pin No.	Terminal Name	Input/Output	Function	Terminal DC Voltage (TYP.)	Remarks
1	GND	—	GND terminal	—	
2	P2TP	Input	TE+ input (CD)	VrA	
3	P2TN	Input	TE- input (CD)	VrA	
4	LDO2	Output	Drive output	—	
5	MDI2	Input	Monitor output	—	
6	VrA	Output	Analog VREF	2.1 [V]	
7	VrD	Output	Digital VREF	—	1/2 of Vdd (2.1V)
8	VDD	Input	Power terminal		Approx. 4.2V
9	DPAC	—	DPD AC coupling capacity 1	—	
10	DPBD	—	DPD AC coupling capacity 2	—	
11	DPD1	—	DPD integration capacity 1	—	
12	DPD2	—	DPD integration capacity 2	—	
13	SCB	Input	Control line (Bit clock)	2.2 [V]	
14	SCL	Input	Control line (Latch signal)	2.2 [V]	
15	SCD	Input	Control line (Serial data)	2.2 [V]	
16	VRCK	Input	Reference clock input	2.3 [V]	Frequency increase results in shift to higher filter frequency except for servo LPF.
17	VCKF	—	Time constant adjustment capacity	—	
18	VCCP	—	Power terminal	—	
19	LVL	Output	Servo addition output	VrD x (1/2)	
20	TEO	Output	TE output	VrD	
21	FEO	Output	FE output	VrD	
22	DFTN	Input	DPD defect	—	DPD output at Low: Mute
23	VCCS	—	Power terminal (Servo)	—	
24	RPZ	Output	RF ripple center voltage	VrD	
25	RPO	Output	RF ripple output	VrD	
26	RPB	Output	RF ripple bottom	—	
27	RPP	Output	RF ripple peak	—	
28	RFO	Output	Equalizing RF output	2.3 [V]	
29,30	NC	—	NC terminal	—	Used by connecting to GND.
31	VCCR	—	Power terminal (RF)	—	
32	DPDB	Input	Pit depth adjustment	VrD	DPDB increase brings delay capacity increase on sides A and B.
33	TEB	Input	TE balance	VrD	TEB increase brings increase in gain on TP side and in delay capacity on sides A and C.
34	FEB	Input	FE balance	VrD	FEB increase brings increase in gain on sides A and C (FP).
35	PSC	Input	VRCK frequency division ON/OFF	—	Frequency division OFF at High
36	VCC2	—	Power terminal	—	
37	NC	—	NC terminal	VrD	Connected to GND via C.
38	EQD	Input	Group delay correction	VrD	Group delay by raising EQD: rise rightward
39	GND2	—	GND terminal	—	
40	RFDC	—	DC feedback capacity	—	
41*	RFA	Output	RF total adding output	2.2 [V]	
42	EQB	Input	Boost adjustment	VrD	Boost quantity up by raising EQB.
43	EQF	Input	Frequency adjustment	VrD	Shift to higher frequency by raising EQF.
44	MDI1	Input	Monitor input	—	
45	LDO1	Output	Drive output	—	
46	P1TN	Input	TE- input (DVD)	VrA	
47	P1TP	Input	TE+ input (DVD)	VrA	
48	NC	—	NC terminal	—	Used by connecting to GND.
49	P1FN	Input	FE- input (DVD)	VrA	

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## IC502 RH-iX1517GEZZ: RF Signal Processor (IX1517GE) (2/2)

Pin No.	Terminal Name	Input/Output	Function	Terminal DC Voltage (TYP.)	Remarks
50	P1FP	Input	FE+ input	VrA	
51	LDP1	Input	APC polarity 1	—	Positive polarity when connecting to Vcc
52	P1DI	Input	D input (DVD)	VrA	
53	P1CI	Input	C input (DVD)	VrA	
54	P1BI	Input	B input (DVD)	VrA	
55	P1AI	Input	A input (DVD)	VrA	
56	GNDR	—	GND terminal (RF)	—	
57	LDP2	Input	APC polarity 2	—	Positive polarity when connecting to Vcc
58	P2AI	Input	A input (CD)	VrA	
59	P2BI	Input	B input (CD)	VrA	
60	P2CI	Input	C input (CD)	VrA	
61	P2DI	Input	D input (CD)	VrA	
62	GNDS	—	GND terminal (Servo)	—	
63	P2FP	Input	FE+ input	VrA	
64	P2FN	Input	FE- input	VrA	

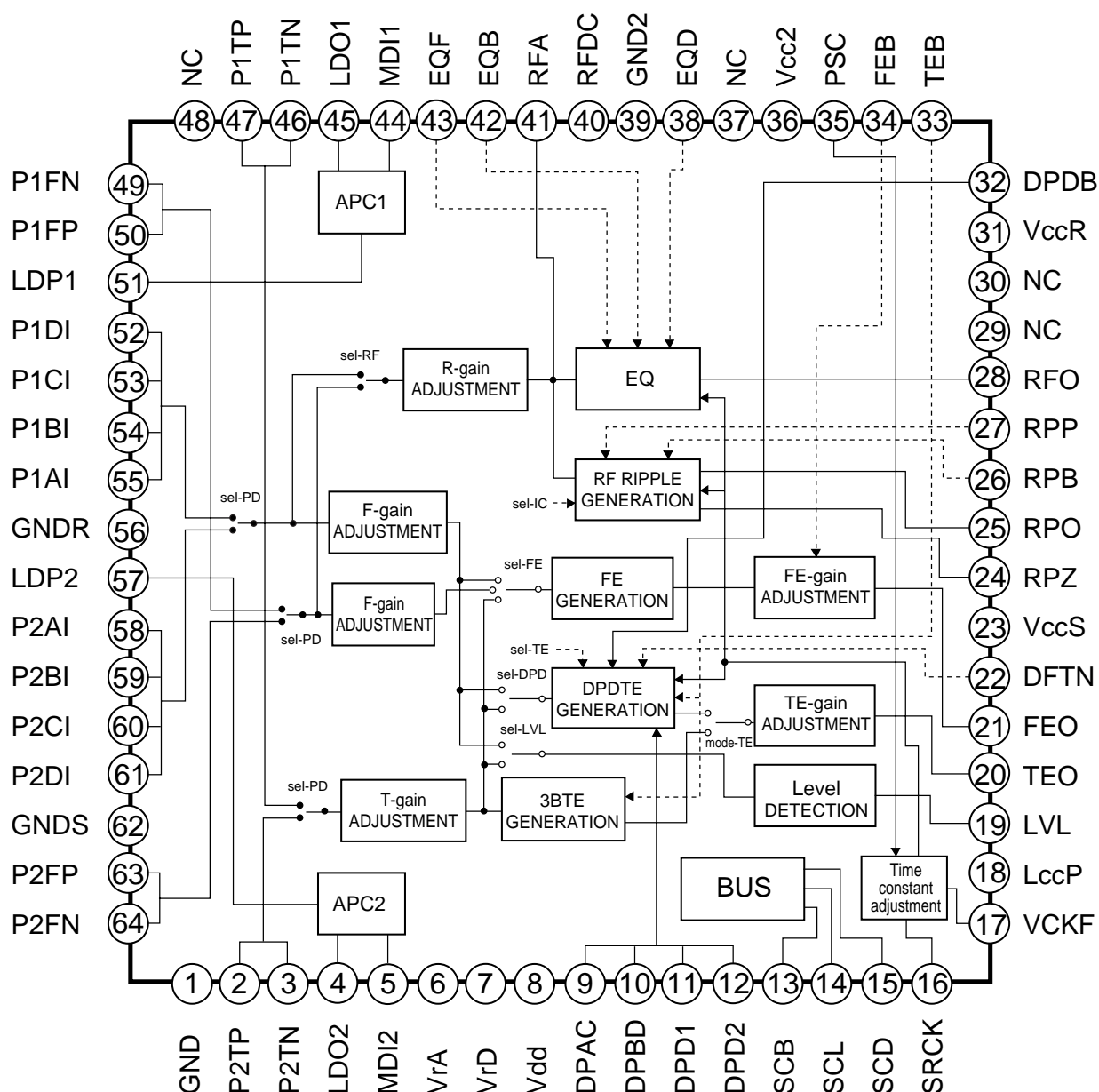


Figure 47 BLOCK DIAGRAM OF IC



## DX-SX1H

### IC503 VHiTB6504F+-1: Stepping Motor Driver (TB6504F)

Pin No.	Terminal Name	Function
1	CK1	Clock signal input
2, 3	M1, M2	Excitation mode set terminal
4	REF IN	Output reference value (VNF) set terminal H: VNF=0.5V, L: VNF=0.25V
5*	$\overline{MO}$	Monitor output L: Initial condition
6*	NC	Not used
7	VCC	Logic side power terminal
8	VMB	Output side power terminal
9	$\emptyset\overline{B}$	$\overline{B}$ output
10	PG-B	Power ground
11	NFB	B channel current detection terminal
12	$\emptyset B$	B output
13	$\emptyset\overline{A}$	$\overline{A}$ output
14*	NFA	A channel current detection terminal
15	PG-A	Power ground
16	$\emptyset A$	A output
17	VMA	Output side power terminal
18*	NC	Not used
19	S-GND	Signal ground
20	$\overline{RESET}$	Reset signal input
21	$\overline{ENABLE}$	Enable signal input
22	OSC	Internal oscillation frequency set terminal. Capacitor is externally mounted.
23	CW/CCW	Clockwise/counterclockwise input
24	CK2	Clock signal input

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

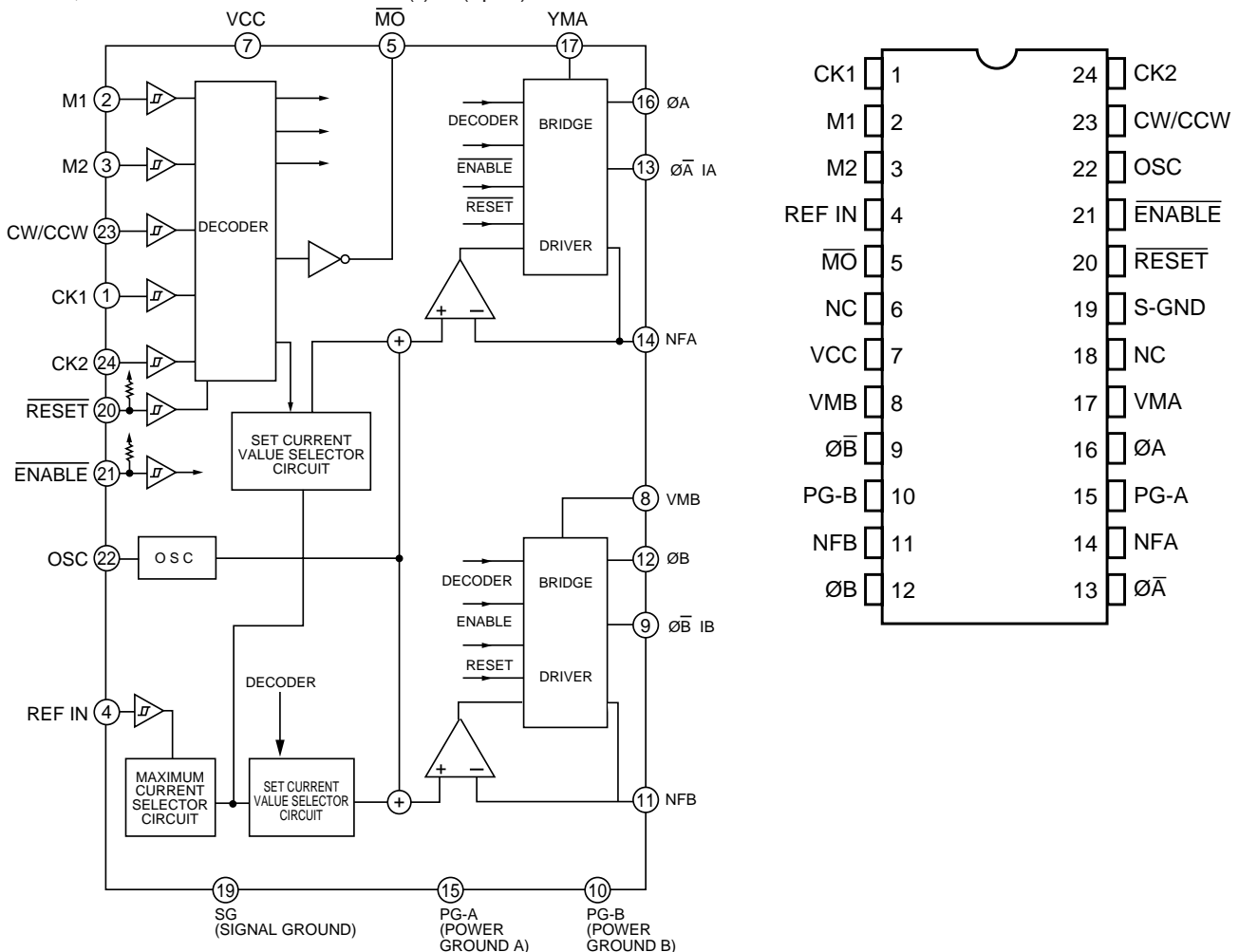
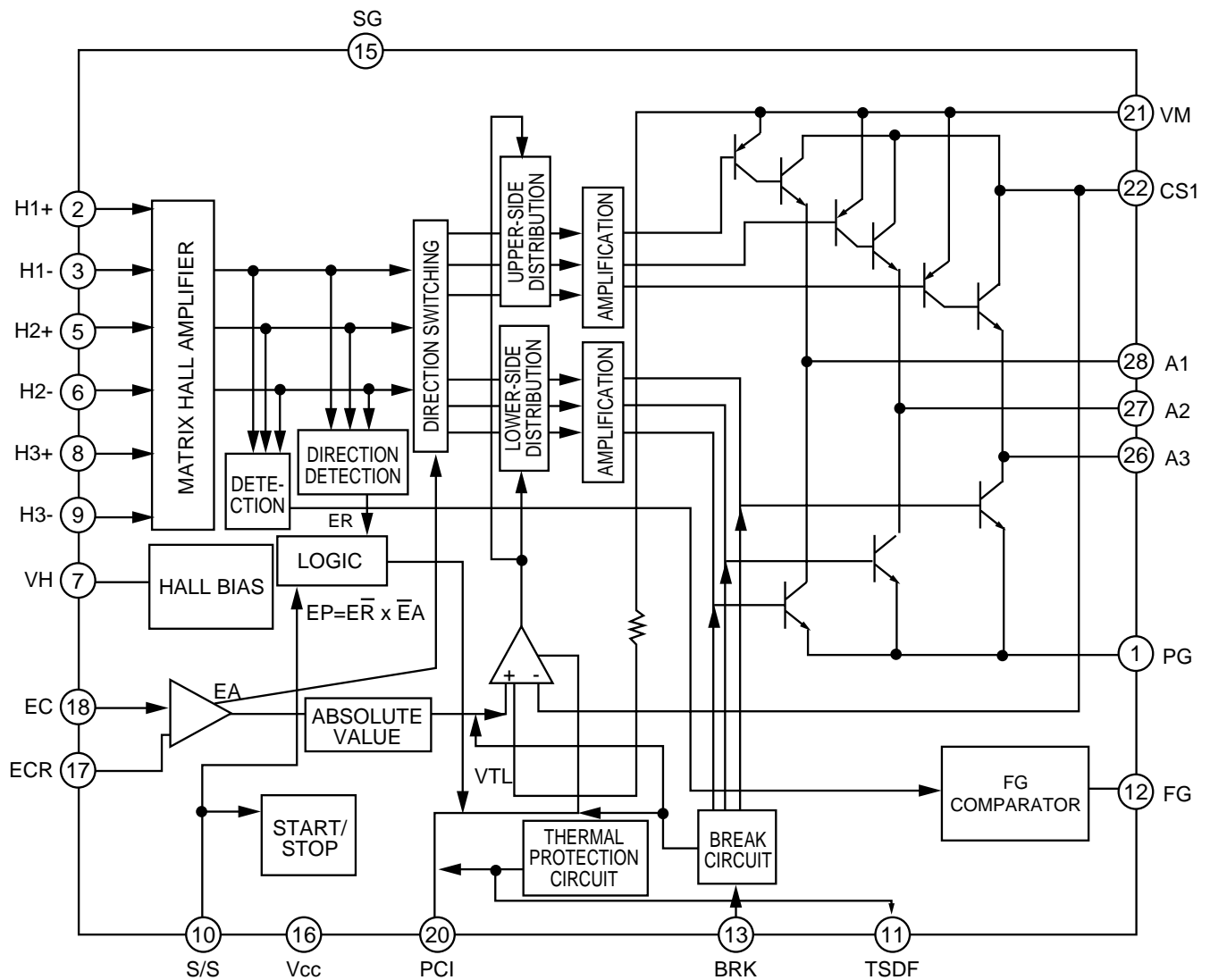


Figure 48 BLOCK DIAGRAM OF IC

**IC504 RH-IX2842AFZZ: Spindle Motor Driver (IX2842AF)**

Pin No.	Terminal Name	Function	Pin No.	Terminal Name	Function
1	PG	Power GND terminal	15	SG	Signal GND terminal
2	H1+	Hall element 1 positive input terminal	16	VCC	Power terminal
3	H1-	Hall element 1 negative input terminal	17	ECR	Torque instruction reference input terminal
4*	NC	Not used	18	EC	Torque instruction input terminal
5	H2+	Hall element 2 positive input terminal	19*	NC	Not used
6	H2-	Hall element 2 negative input terminal	20	PCI	Current feedback phase compensating terminal
7	VH	Hall bias terminal	21	VM	Motor power terminal
8	H3+	Hall element 3 positive input terminal	22	CS1	Current detection terminal 1
9	H3-	Hall element 3 negative input terminal	23*	NC	Not used
10	SS	Start/Stop switching terminal	24*	NC	Not used
11*	TFLG	Thermal protection monitor terminal	25*	NC	Not used
12	FG	FG signal output terminal	26	A3	Drive output 3
13	BRK	Break mode set terminal	27	A2	Drive output 2
14*	NC	Not used	28	A1	Drive output 1

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.



**Figure 49 BLOCK DIAGRAM OF IC**

DX-SX1H

IC506 VHiBA6796FP-1: Loading/Focus/Tracking/Spin/Sled Driver (BA6796FP)

Pin No.	Terminal Name	Function	Pin No.	Terminal Name	Function
1*	OPOUT	Operational amplifier output terminal	15	CH2-OUT-	CH2 negative output terminal
2	CH4-IN	CH4 input terminal	16	CH2-OUT+	CH2 positive output terminal
3*	CH4-IN'	CH4 gain adjustment input terminal	17	CH1-OUT-	CH1 negative output terminal
4	CTL1	Control 1 input terminal	18	CH1-OUT+	CH1 positive output terminal
5	CTL2	Control 2 input terminal	19	CH1-IN	CH1 input terminal
6	FWD	Tray forward input terminal	20	CH1-IN'	CH1 gain adjustment input terminal
7	REV	Tray reverse input terminal	21	VCC	VCC
8	TRAY-IN	Tray input terminal	22	CH2-IN	CH2 input terminal
9	GND	Substrate GND	23*	CH2-IN'	CH2 gain adjustment input terminal
10	CH5-OUT-	Tray negative output terminal	24*	CH3-IN	CH3 input terminal
11	COM-OUT	Tray positive terminal/CH4 negative output terminal	25*	CH3-IN'	CH3 gain adjustment input terminal
12*	CH4-OUT+	CH4 positive output terminal	26	VREF-IN	Bias amplifier input terminal
13*	CH3-OUT+	CH3 positive output terminal	27*	OPIN+	Operational amplifier non-inversion input terminal
14*	CH3-OUT-	CH3 negative output terminal	28*	OPIN-	Operational amplifier inversion input terminal

Note 1: Positive output/negative output means polarity toward input. (Ex. 18 pin output 'H' in case of 19 pin input 'H')

Note 2: Tray positive output/tray negative output means polarity toward mode. (Ex. 11 pin output 'H' in case of the forward mode)

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

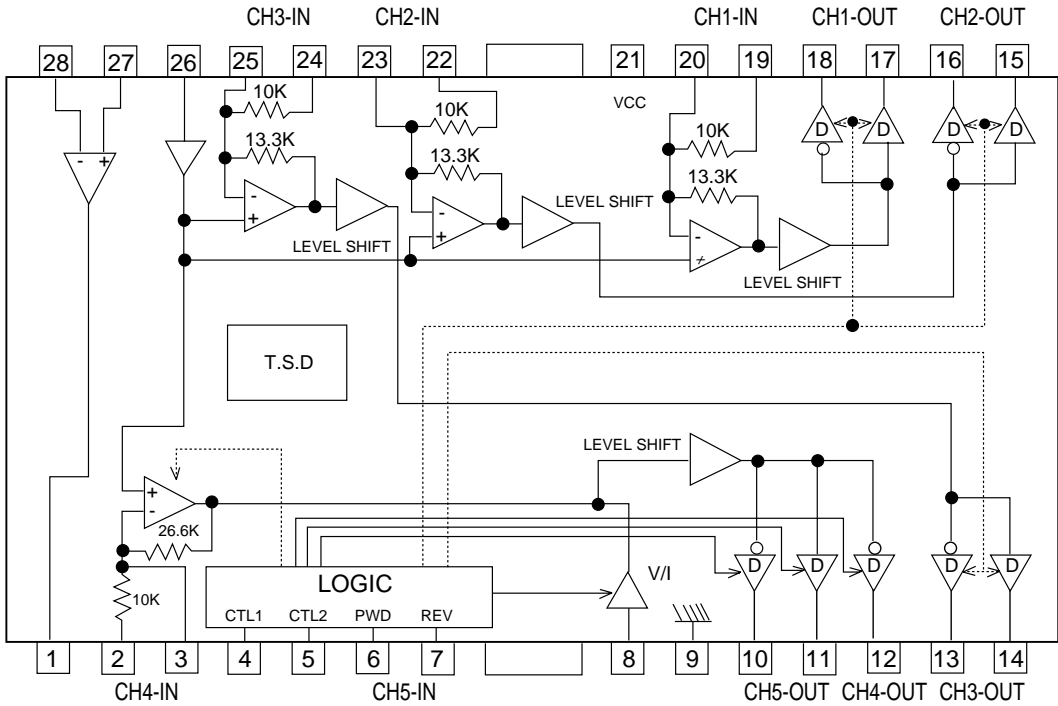


Figure 50 BLOCK DIAGRAM OF IC

Mode Switching Table

For CTL1 and CTL2

CTL1	CTL2	CH1	CH2	CH3	CH4	CH5
L	L	OFF				ON
L	H					ON
H	L	ON				OFF
H	H	OFF	ON	OFF	ON	ON

Note: Output: high impedance in case of OFF.

For F and R (CH5 control is effective only in case of ON)

F	R	Output Mode
L	L	High impedance
L	H	Reverse
H	L	Forward
H	H	Break

## IC602 RH-iX1474GEZZ: SCD Data Processor (IX1474GE) (1/2)

Pin No.	Terminal Name	Input/Output	Function	Remarks
1	DPCKI	Input	Signal processing reference clock input	0.5 - 3.3Vpp, feedback resistor built in.
2	DVDD3	—	Digital power supply (3.3V)	For logic cell
3	SVCKI	Input	Servo reference clock input (Oscillation circuit input terminal)	3.3V-I/F feedback resistor built in
4*	SVCKO	Output	Servo reference clock input (Oscillation circuit input terminal)	
5	DVSS	—	Digital power supply (0V)	For logic cell
6	DVDD3	—	Digital power supply (3.3V)	For logic cell
7*	NC	—	The use forbidden	Open
8	HDWT	Input	MPU write signal	Level TTL
9	HDRD	Input	MPU read signal	Level TTL
10	HCEN	Input	MPU chip select	Level TTL
11-18	HD0-HD7	Input/Output	MPU data bus	Level TTL
19	DVSS	—	Digital power supply (0V)	For I/O cell
20	DVDD5	—	Digital power supply (5V)	For I/O cell
21	HINT	Output	MPU interrupt signal (Occurrence of interruption = "L")	OPEN DRAIN
22,23	HA0, HA1	Input	MPU address bus	Level TTL
24	PLCK	Output	Read channel clock output terminal	
25*-31*	ED0-ED6	—	For default adjustment; use by user is forbidden. (NC)	Open
32	ED7	Output	SACD 2 binary data	
33	TEST	Input	For default adjustment	Set to "L".
34	PDON	Output	PLL phase error signal output (Polarity: -)	
35	PDOP	Output	PLL phase error signal output (Polarity: +)	
36	RLLD	Output	PLL detection result output	
37	LPFN	Input	Inversion input of amplifier for PLL loop filter	
38	LPFO	Output	Output of amplifier for PLL loop filter	
39	VCOF	Output	VCO filter terminal	
40	SCLO	Output	Reference voltage output terminal of built-in comparator	
41	AVSS	—	Analog power supply (0V)	
42	AVR	Output	Non-PLL analog reference potential (1.65V)	
43	VRC	—	Resistance dividing point potential (For generating analog reference potential: 1.65)	
44	PVR	Output	PLL analog reference potential (1.65V)	
45	AVDD	—	Analog power supply (3.3V)	
46	RVR2	—	Secondary reference voltage (For connecting capacitor)	
47	RVDD	—	Dedicated power terminal (3.3V)	
48	RFIN	Input	RF signal input	
49	RVSS	—	Dedicated power terminal (0V)	
50	RVR1	—	The first reference voltage (For connecting capacitor)	
51	DVR	Input	DMO reference potential (1.65V recommended)	
52	DMO	Output	DVD disc equalizer output (Ternary PWM + Hiz)	
53	RASN	Output	External RAM column address select (Negative logic)	
54	CASN	Output	External RAM row address select (Negative logic)	
55	MOEN	Output	External RAM output enable signal	
56	MWEN	Output	External RAM read/ write select	
57	DVSS	—	Digital power supply (0V)	For logic cell
58	DVDD3	—	Digital power supply (3.3V)	For logic cell
59-68	MA9-MA0	Output	External RAM address bus	
69	DVSS	—	Digital power supply (0V)	For I/O cell
70	DVDD5	—	Digital power supply (5V)	For I/O cell
71-78	MD7-MD0	Input/Output	External RAM data bus	Level TTL
79-82	SD7-SD4	Output	MPEG data output	
83	DVSS	—	Digital power supply (0V)	For logic cell

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## DX-SX1H

### IC602 RH-IX1474GEZZ: SACD Data Processor (IX1474GE) (2/2)

Pin No.	Terminal Name	Input/Output	Function	Remarks
84	DVDD3	—	Digital power supply (3.3V)	For logic cell
85-88	SD3-SD0	Output	MPEG data output	
89	SERR	Output	MEPG data reliability flag (Data error = "L")	
90	SBGN	Output	MEPG output sector synchronous signal (Sector head = "L")	
91	SENB	Output	MEPG data effective flag (Effective = "L")	
92	SDCK	Output	MEPG data transfer clock	
93	DVSS	—	Digital power supply (0V)	For logic cell
94	SREQ	Input	MEPG data request flag (In case of request = "L")	Level TTL
95	RSTN	Input	Hard reset input (In case of reset = "L")	
96	DVDD3	—	Digital power supply (3.3V)	For logic cell
97	STDA	Output	Status data output	
98	STCK	Output	Status clock output	
99	UPWM	Output	Universal PWM output	
100	DVSS	—	Digital power supply (0V)	For logic cell

### IC603 VHiSC514870SJ: 4Mbit DRAM (SC514870SJ)

Pin No.	Terminal Name	Function
10-13, 16-20, 9	A0-A8, A9R	Address input
8	$\overline{\text{RAS}}$	Row address strobe
23	$\overline{\text{CAS}}$	Column address strobe
2-5, 24-27	DQ1-DQ8	Data input/Data output
22	$\overline{\text{OE}}$	Output enable
7	$\overline{\text{WE}}$	Write enable
1	VCC	Power supply (5V)
15, 28	VSS	Ground (0V)
6*, 21*	NC	Not used

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

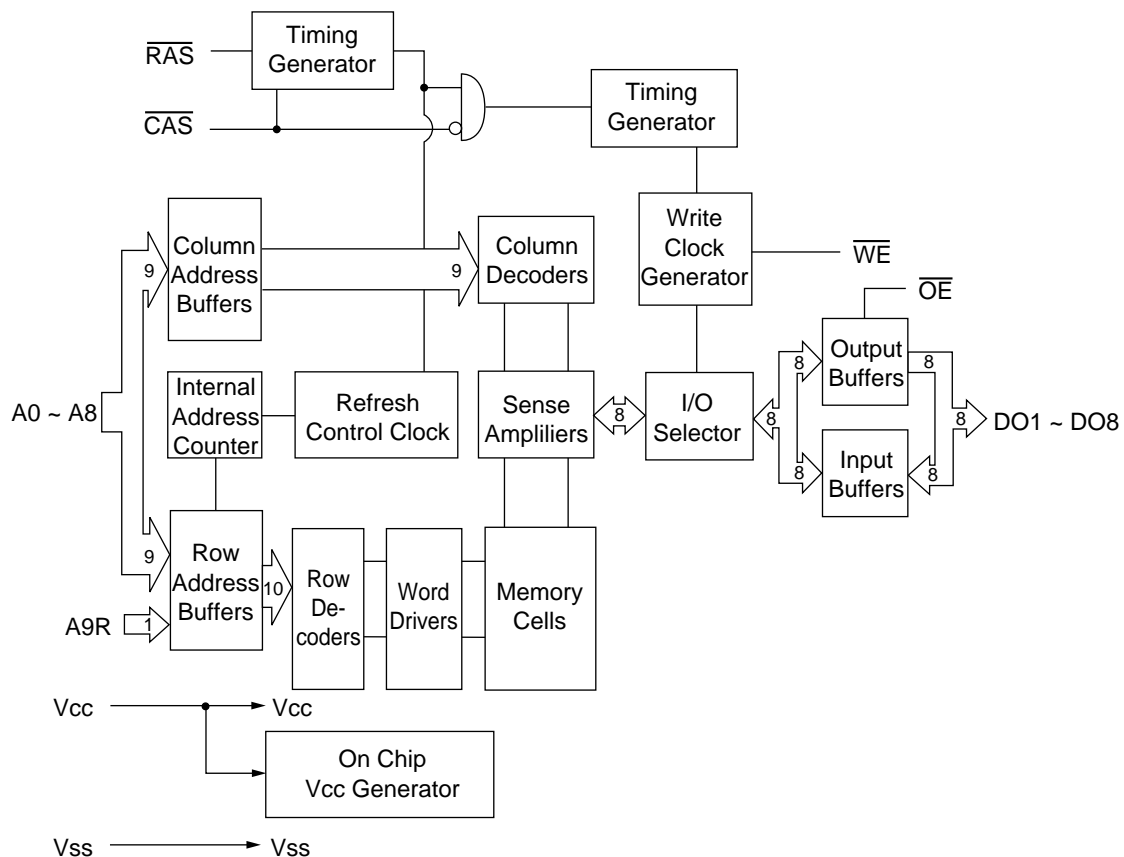


Figure 52 BLOCK DIAGRAM OF IC

## IC606 RH-iX1473GEZZ: Digital Servo (IX1473GE) (1/3)

Pin No.	Terminal Name	Input/Output	Function		Remarks								
1	VSS	—	Digital ground terminal										
2	BCK	Output	Bit clock (1.4122 MHz) output terminal										
3	AOUT	Output	Audio data output terminal										
4	DOUT	Output	Digital-out output terminal										
5*	MBOV	Output	When buffer memory over signal output terminal is over: "H"										
6	IPF	Output	When AOUT output of correction flag output terminal shows the correction impossible symbol: "H"										
7*	SBOK	Output	When CRCC judgment result output terminal of sub-code Q data shows OK: "H"										
8*	CLCK	Input/Output	Can be selected by using the clock output/input terminal command bit for reading sub-code P-W data.										
9	VDD	—	Digital + power terminal										
10	VSS	—	Digital ground terminal										
11*	DATA	Output	Sub-code P-W data output terminal										
12*	SFSY	Output	Reproductive frame sync signal output terminal										
13	SBSY	Output	When sub-code sync of sub-code block sync output terminal is detected: "H" at the position of SI										
14*	SPCK	Output	Output terminal of the clock (176.4 kHz) for reading processor status signals										
15*	SPDA	Output	Processor status signal output terminal										
16*	COFS	Output	Correction frame clock (7.35 kHz) output terminal										
17*	MDNIT	Output	Can monitor DSP internal flag and PLL clock by using microcomputer commands of LSI internal signal monitor terminal										
18	VDD	—	Digital + power terminal										
19	TESIO0	Input	Test input/output terminal. Normally fixed at "L".										
20	P2VREF	—	PLL special 2VREF terminal										
21*	SPDO	Output	VCO center frequency shift terminal										
22*	PDOS	Output	Phase error (between EFM and PLCK) signal output terminal (to be used in case of 8-time speed operation)										
23	PDO	Output	Output terminal for phase error signal between EFM signal and PLCK signal										
24*	TMAXS	Output	<div>TMAX detection result output terminal. Selected by command bit TMPS.</div> <table><tr><th>TMAX Detection result</th><th>TMAX Output</th></tr><tr><td>Longer than the specified frequency</td><td>"P2VEFF"</td></tr><tr><td>Shorter than the specified frequency</td><td>"VSS"</td></tr><tr><td>Within the specified frequency</td><td>"HiZ"</td></tr></table>		TMAX Detection result	TMAX Output	Longer than the specified frequency	"P2VEFF"	Shorter than the specified frequency	"VSS"	Within the specified frequency	"HiZ"	
TMAX Detection result	TMAX Output												
Longer than the specified frequency	"P2VEFF"												
Shorter than the specified frequency	"VSS"												
Within the specified frequency	"HiZ"												
25	TMAX	Output											
26	LPFN	Input	Inversion input terminal of amplifier for low-pass filter										
27	LPFO	Output	Output terminal of amplifier for low-pass filter										
28	PVREF	—	VREF terminal for PLL system										
29	VCOREF	Input	VCO center frequency reference level terminal. Normally fixed at "PVREF".										
30	VCOF	Output	Filter terminal for VCO										
31	AVSS	—	Analog system ground terminal										
32	SLCO	Output	Output terminal of DAC for generating data slice level										
33	RFI	Input	RF signal input terminal										
34	AVDD	—	Analog power terminal										
35	RFCT	Input	RFRP signal center level input terminal										
36	REZI	Input	Input terminal for RFRP zero-cross										
37	RFRP	Input	RF ripple signal input terminal										
38	FEI	Input	Focus error signal input terminal										
39	SBAD	Input	Sub-beam adding signal input terminal										
40	TSIN	Input	Test input terminal. Normally fixed at "Vref".										
41	TEI	Input	Tracking error signal input terminal (Input when tracking servo is ON.)										
42	TEZI	Input	Input terminal for tracking error zero cross										
43	FOO	Output	Focus equalizer output terminal										

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## DX-SX1H

### IC606 RH-IX1473GEZZ: Digital Servo (IX1473GE) (2/3)

Pin No.	Terminal Name	Input/Output	Function	Remarks
44	TRO	Output	Tracking equalizer output terminal	
45	VREF	—	Analog reference power terminal	
46*	RFGC	Output	Outputs 3-pole PWM signal of RF amplitude adjusting signal output terminal. (PWM carrier = 88.2 kHz)	
47	TEBC	Output	Outputs 3-pole PWM signal of tracking balance control signal output terminal. (PWM carrier = 88.2 kHz)	
48	FMO	Output	Outputs 3-pole PWM signal of feed equalizer output terminal. (PWM carrier = 88.2 kHz)	
49*	FVO	Output	Outputs speed error signal or 3-pole PWM signal of feed search EQ output terminal. (PWM carrier = 88.2 kHz)	
50	DMO	Output	To output PWM signals of 3 poles of disc equalizer output terminal. (PWM carrier = DPS 88.2 kHz, synchronizing with PXO)	
51	2VREF	—	Reference power terminal	
52	SEL	Output	Laser diode control signal	
53	FLGA	Output	FLG-A output terminal	
54	FLGB	Output	FLG-B output terminal	
55*	FLGC	Output	FLG-C output terminal	
56	FLGD	Output	FLG-D output terminal	
57	VDD	—	Power terminal	
58	VSS	—	Connected to GND.	
59-62 (60*)	IO0-IO3	Input/Output	General-purpose I/O port Can be switched to input/output port possible according to commands. In case of input port: can read terminal condition (H/L) by read commands possible. In case of output port: can control terminal condition (H/L/HiZ) by commands possible.	
63	/DMOUT	Input	Terminal for setting the mode outputting feed equalizer binary PWM from IO0 and 1 terminals and disc equalizer binary PWM from IO2 and 3 terminals. "L": active.	
64	/CKSE	—	X'tal select terminal. In case of 16.9344MHz: "H"; in case of 33.8688 MHz: "L"	
65*	/DACT	—	Test terminal	
66	TESIN	Input	Test input terminal	
67	TESIO1	Input/Output	Test input/output terminal	
68	VSS	—	Digital ground terminal	
69	PXI	Input	DSP system clock oscillation circuit input terminal	
70	PXO	Output	DSP system clock oscillation circuit output terminal	
71	VDD	—	Digital + power terminal	
72	XVSS	—	Ground terminal for system clock oscillation circuit	
73	XI	Input	System clock oscillation circuit input terminal	
74*	XO	Output	System clock oscillation circuit output terminal	
75	XVDD	—	+ power terminal for system clock oscillation circuit	
76	DVDD	—	D/A conversion section power terminal	
77*	RO	Output	Channel R data normal rotation output terminal	
78	DVSS	—	D/A conversion section analog ground terminal	
79	DVR	—	D/A conversion section reference voltage terminal	
80*	LO	Output	Channel L data normal rotation output terminal	
81	DVDD	—	D/A conversion section power terminal	
82	TEST1	Input	Test terminal Normally open	Pull-up resistor built in
83	TEST2	Input	Test terminal Normally open	Pull-up resistor built in
84	TEST3	Input	Test terminal Normally open	Pull-up resistor built in
85	BUS0	Input/Output	Data input/output terminal for microcomputer interface	Schmitt input CMOS port
86	BUS1	Input/Output		
87	BUS2	Input/Output		
88	BUS3	Input/Output		

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.



IC606 RH-iX1473GEZZ: Digital Servo (IX1473GE) (3/3)

Pin No.	Terminal Name	Input/Output	Function	Remarks															
89	VDD	—	Digital + power terminal																
90	VSS	—	Digital ground terminal																
91	BUCK	Input	Clock input terminal for microcomputer interface	Schmitt input															
92	/CCE	Input	Chip enable signal input terminal for microcomputer interface "L": BUS0 to 3 are active.	Schmitt input															
93	TEST4	Input	Test terminal Normally open	Pull-up resistor built in															
94	/TSMOD	Input	Local test mode select terminal	Pull-up resistor built in															
95	/RST	Input	Reset signal input terminal "L" in case of reset	Pull-up resistor built in Pull-up resistor															
96	TEST0	Input	Test terminal Normally open	Pull-up resistor built in Pull-up resistor															
97*	/HSO	Output	Playback speed mode flag output terminal																
98*	/UHSO	Output	<table><tr><th>/UHSO</th><th>/HSO</th><th>Playback speed</th></tr><tr><td>H</td><td>H</td><td>Normal speed playback</td></tr><tr><td>H</td><td>L</td><td>Double speed playback</td></tr><tr><td>L</td><td>H</td><td>4-time speed playback</td></tr><tr><td>L</td><td>L</td><td>8-time speed playback</td></tr></table>	/UHSO	/HSO	Playback speed	H	H	Normal speed playback	H	L	Double speed playback	L	H	4-time speed playback	L	L	8-time speed playback	
/UHSO	/HSO	Playback speed																	
H	H	Normal speed playback																	
H	L	Double speed playback																	
L	H	4-time speed playback																	
L	L	8-time speed playback																	
99	EMPH	Output	Emphasis flag output terminal for sub-code Q data H: emphasis ON, L: emphasis OFF Output polarity can be inverted according to commands																
100	LRCK	Output	Channel clock (44.1 kHz) output terminal L channel: L, R channel: H Output polarity can be inverted according to commands																

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

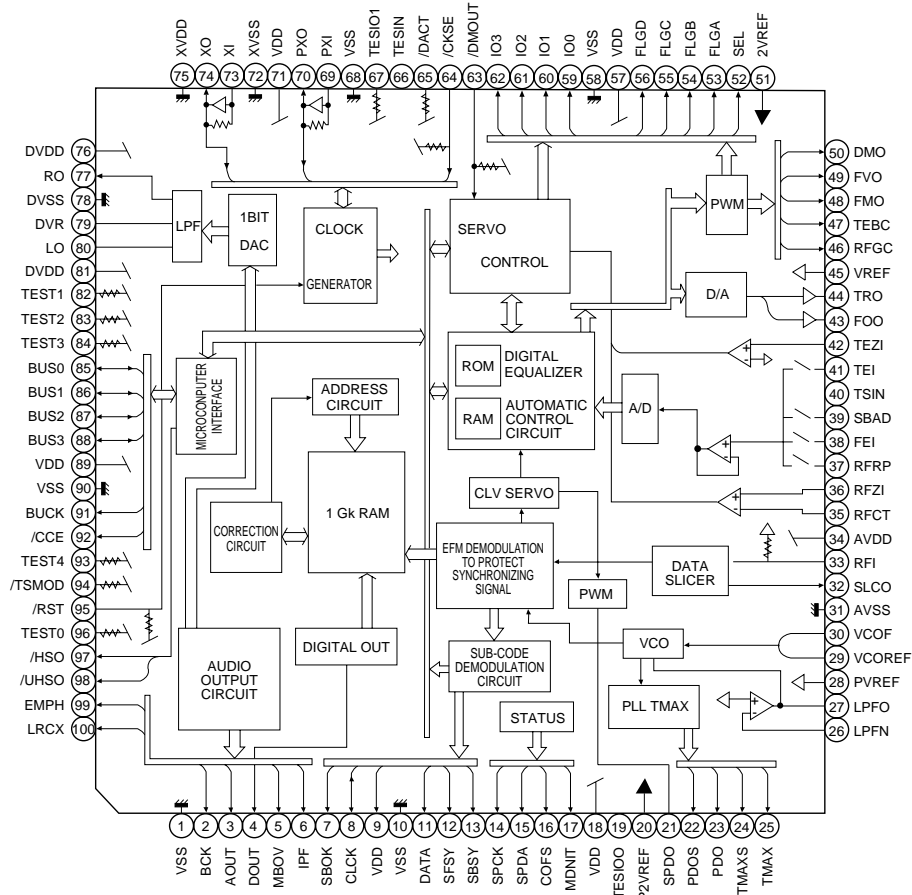
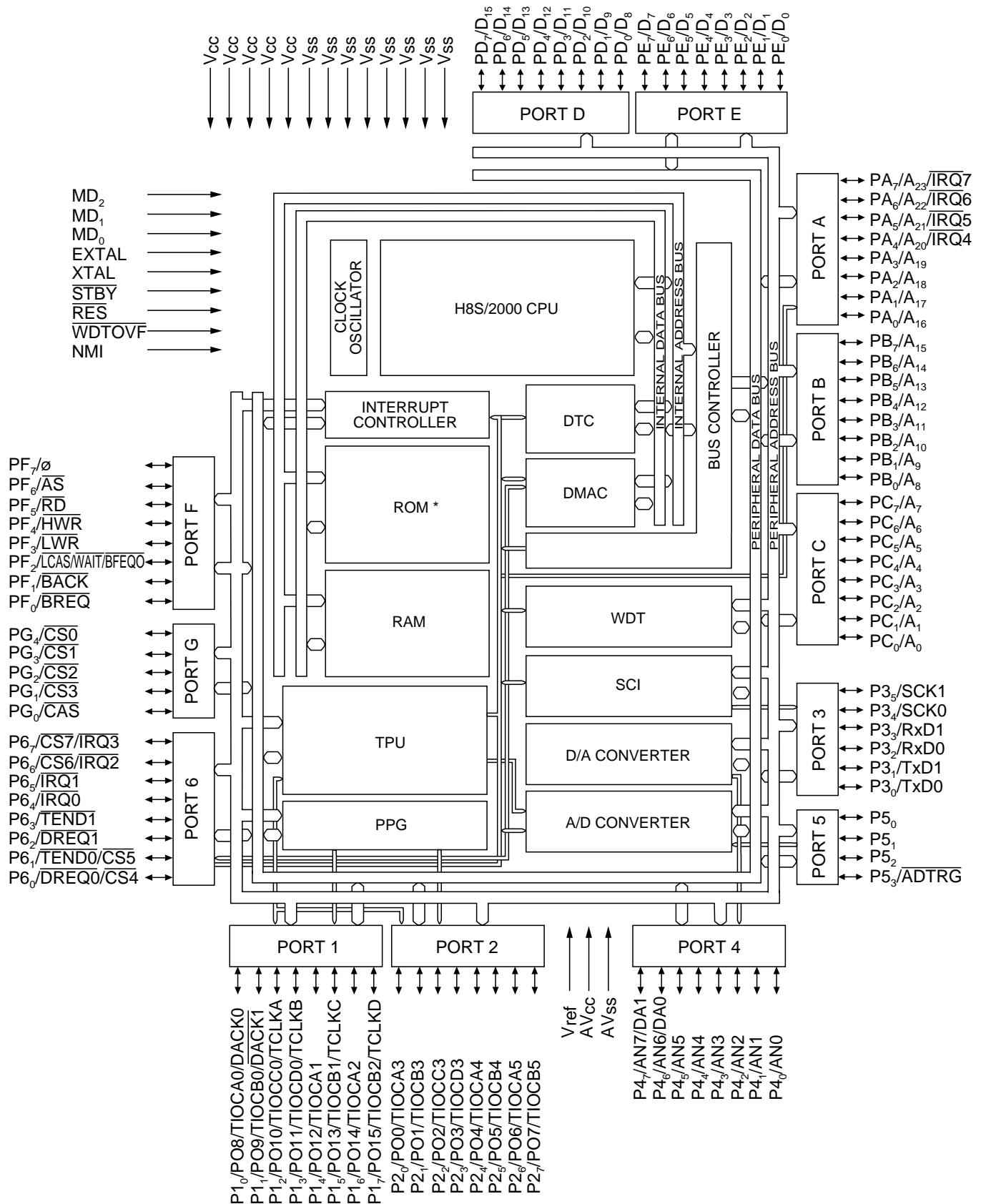


Figure 55 BLOCK DIAGRAM OF IC

## IC801 RH-iX1478GEZZ: System Microcomputer (IX1478GE)



**IC802 RH-iX1535GEZZ: Input/Output Expander (IX1535GE) (1/2)**

Pin No.	Terminal Name	Input/Output	Function
1	VDD	—	Power supply +3.3V
2-4	HADR0-HADR2	Input	CPU address bus
5	HCS	Input	CPU chip select
6	HWR	Input	CPU write signal
7	HRD	Input	CPU read signal
8-15	HDAT0-HDAT7	Input/Output	CPU data bus
16	VSS	—	Digital GND
17	VDD	—	Power supply +3.3V
18	EXPPAL0, SLDCK 1	Output	Driving clock output for stepping motor driver
19	EXPPAL1, SLDCK 2	Output	Mode control output for stepping motor driver
20	EXPPAL2, CW/CCW	Output	Rotating direction control output for stepping motor driver
21	EXPPAL3, DACCK	Output	Clock signal for electronic capacity IC
22	EXPPAU0, DACDT	Output	Data signal for electronic capacity IC
23*	EXPPAU1	Input/Output	General input/output terminal Gr.A
24	VSS	—	Digital GND
25	VDD	—	Power supply +3.3V
26	EXPPAU2	Input	General input/output terminal Gr.A
27	EXPPAU3	Output	General input/output terminal Gr.A
28	EXPBL0, EXTCK	Output	Control clock output to 1-bit amplifier
29	EXPBL1, EXTDO	Output	Control data output to 1-bit amplifier
30	EXPBL2, EXTST	Output	Control strobe output to 1-bit amplifier
31	EXPBL3, VOLCS	Output	Chip select signal for electronic capacity IC
32	VSS	—	Digital GND
33	VDD	—	Power supply +3.3V
34	EXPBU0, EXTDI	Input	Control data input from 1-bit amplifier
35	EXPBU1, MECSW1	Input	Tray position detection input
36	EXPBU2, MECSW2	Input	Mechanism stop mode detection input
37	EXPBU3, SMODE	Input	Operating mode set input. Opened (S-MODE)
38	EXPC0, DVD_L	Output	SACD disc inserted/CD stopped: L
39	EXPC1, SMUTE	Output	Soft mute signal for SACD decoder
40	EXPC2, AMUTE	Output	Audio mute. In case of playback/manual search
41	VSS	—	Digital GND
42	EXPC3	Input/Output	General input/output terminal Gr.C
43	EXPC4, DSDCTL	Output	Output control signal for DSD 1-bit signal
44	EXPC5, SEEK	Output	General input/output terminal Gr.C
45	EXPD0, GAIN0	Output	Gain control signal for RF pre-amplifier
46	EXPD1, GAIN1	Output	Gain control signal for RF pre-amplifier
47	EXPD2, GAIN2	Output	Gain control signal for RF pre-amplifier
48	VSS	—	Digital GND
49	VDD	—	Power supply +3.3V
50	EXPD3, MMUTE	Output	Main relay control signal. After reading disc TOC: "H"
51	EXPD4	Input/Output	General input/output terminal Gr.D
52	EXPD5, EMPH	Output	De-emphasis signal output
53	BUFDO, RST_01	Output	Buffer output D/Reset signal output for peripheral IC
54	BUFDI	Input	Buffer input D
55	SBUFBO	Output	Schmitt buffer output B
56	SBUFBI	Input	Schmitt buffer input B
57	SBUFAO	Output	Schmitt buffer output A
58	SBUFAI	Input	Schmitt buffer input A
59	MRST	Input	Reset terminal

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## DX-SX1H

### IC802 RH-iX1535GEZZ: Input/Output Expander (IX1535GE) (2/2)

Pin No.	Terminal Name	Input/Output	Function
60	MODE	Input	Mode switching terminal. Fix at "L".
61	BUFCO	Input/Output	Buffer output C
62	TEST	Input	Test terminal. Fixed at "L".
63	BUFCI	Input	Buffer input C. Not used.
64	VSS	—	Digital GND

Pins 1 to 15: Simultaneous changes possible. Operating frequency: approx. 10MHz

Pins 18 to 47: Simultaneous changes possible. (Static signal) Operating frequency: approx. 1kHz

Pins 50 to 57: Simultaneous changes almost impossible. Operating frequency: approx. 1kHz

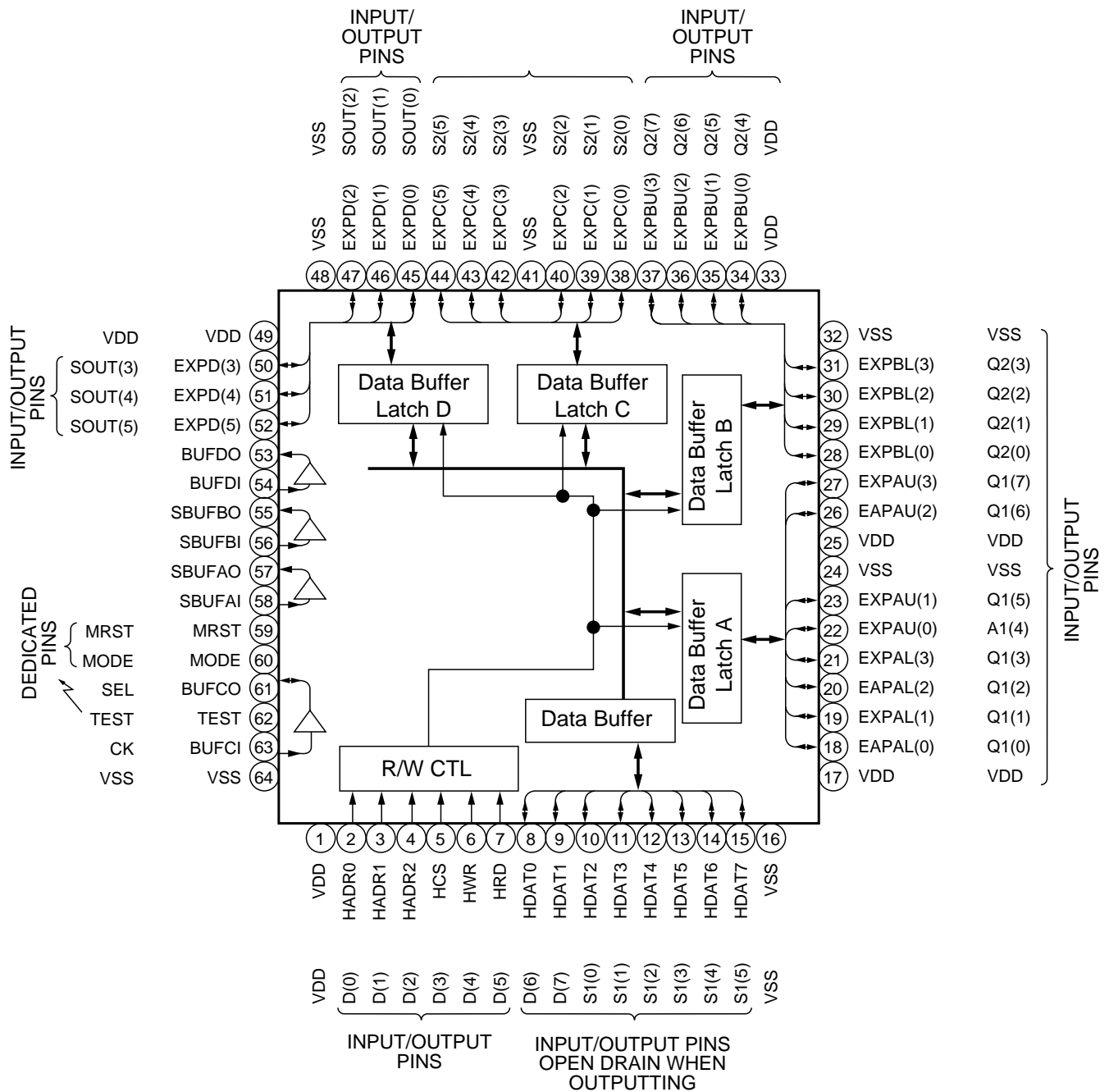
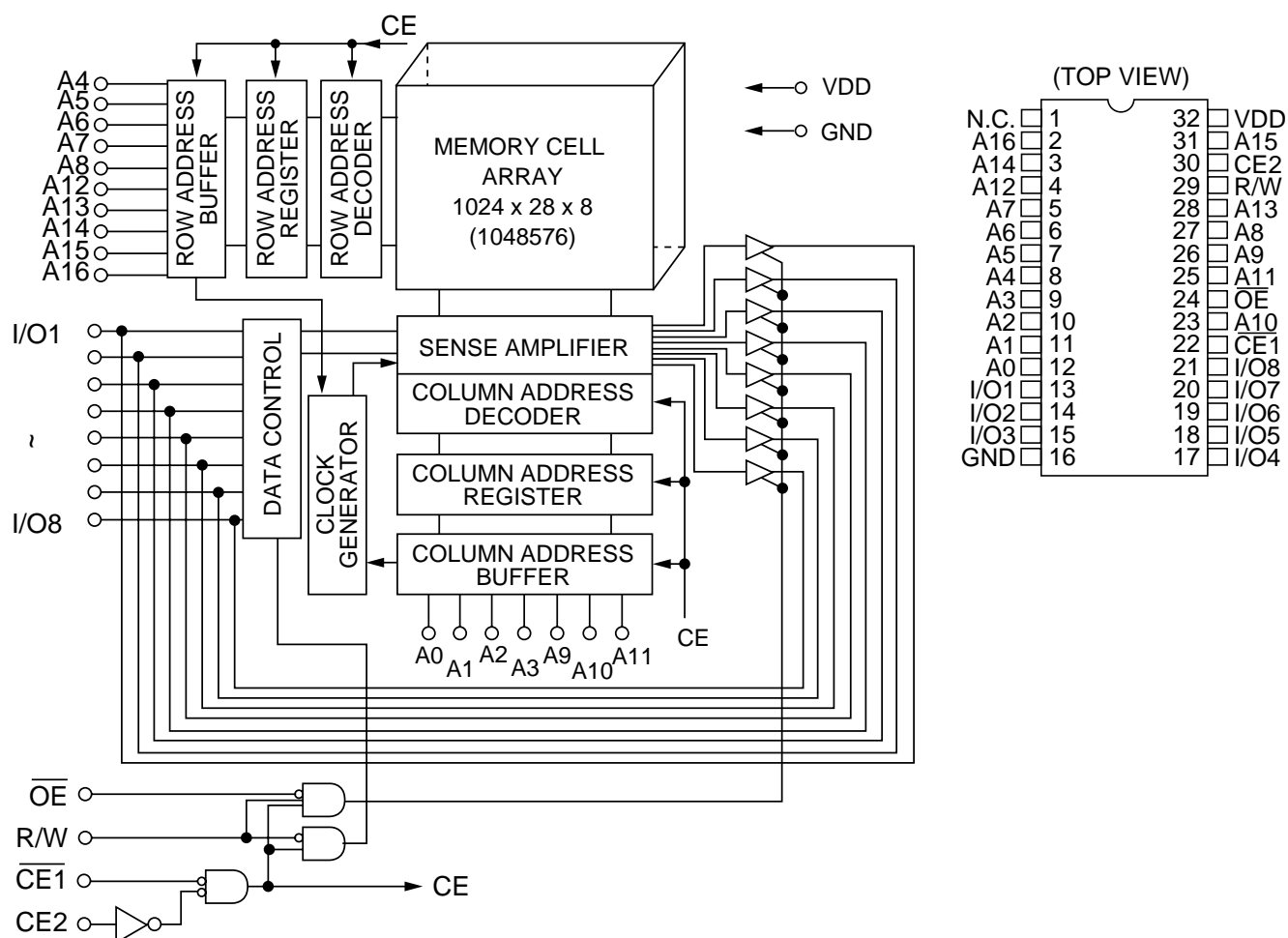


Figure 58 BLOCK DIAGRAM OF IC

**IC804 RH-iX2839AFZZ: 1Mbit SRAM (IX2839AF)**

Pin No.	Terminal Name	Function
1*	NC	Not used
2	A16	Address input
3	A14	Address input
4	A12	Address input
5-12	A7-A0	Address input
13-15	I/O1-I/O3	Data input/output
16	GND	Ground
17-21	I/O4-I/O8	Data input/output
22	$\overline{\text{CE1}}$	Chip enable input
23	A10	Address input
24	$\overline{\text{OE}}$	Output enable input
25	A11	Address input
26, 27	A9, A8	Address input
28	A13	Address input
29	R/W	Read/Write input
30	CE2	Chip enable input
31	A15	Address input
32	VDD	Power terminal (+5V)

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.



**Figure 59 BLOCK DIAGRAM OF IC**

## DX-SX1H

### IC805 RH-IX1539GEZZ: Flash ROM (IX1539GE) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1-3	A15-A13	Input	Block select addresses: Select 1/32 erase block. These addresses are latched during data entry, erase and lock block.
4-8	A12-A8	Input	Word select addresses: Select one word in 1.6k byte block. These addresses are latched during data entry.
9*, 10*	NC	—	Not used
11	WR	Input	Write enable: Controls access to command user interface, to data cue register and to address cue latch. At Low, WR is active to input address and data at leading edge.
12	/RP	Input	Reset/power-down: By setting /RP at Low, control circuit is initialized when supplying power. When supplying/breaking power, /RP pin is maintained at Low to protect data. If /RP is at Low, device is in condition of deep power down. To return from the deep power down, 480ns is required. When pin /RP is at Low, all chip operation is interrupted and reset. After return, device reads array.
13	VPP	—	Device power supply: 5.0 V
14	/WP	—	Write/Erase power supply: 5.0±0.5V is applied during the writing/erasing operation.
15	RY/BY	Output	Ready/Busy: Outputs the condition of the internal write state machine. "Low" shows the write state machine is in operation. When the machine is waiting for the next instruction to operate, interrupting erasing, or in deep power-down condition, RY/BY pin is in the float condition.
16,17	A18, A17	Input	Block select addresses: Select 1/32 erase block. These addresses are latched during data entry, erase and lock block.
18-25	A7-A0	Input	Word select addresses: Select one word in 1.6k byte block. These addresses are latched during data entry.
26	/CE	Input	Chip enable: Makes control logic, input buffer, decoder, and sense amplifier of the device active. Only when /CE is Low, chip becomes active.
27	GND	—	Ground
28	/OE	Input	Output enable: By setting /OE at Low, data are output from pin DQ. If /OE is set at High, pin DP becomes in the float condition.
29	DQ0	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
30	DQ8	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address
31	DQ1	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
32	DQ9	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address
33	DQ2	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
34	DQ10	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address
35	DQ3	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
36	DQ11	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address
37	VCC	—	Device power supply: 5.0±0.5V
38	DQ4	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
39	DQ12	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address
40	DQ5	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
41	DQ13	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## IC805 RH-iX1539GEZZ: Flash ROM (IX1539GE) (2/2)

Pin No.	Terminal Name	Input/Output	Function
42	DQ6	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
43	DQ14	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address
44	DQ7	Input/Output	Lower byte data input/output: Data and command input during cycle of writing command user interface. Memory array, identifier, and status data output when reading various data. Float condition in case of chip non-select or output disable.
45	DQ15	Input/Output	Upper byte data input/output: The function is the same as shown in case of the lower byte data input/output above. Operating only in x16 mode. Floating in x 8 mode. DQ15/A-1: address
46	GND	—	Ground
47	NC	—	Not used
48	A16	Input	Block select addresses: Select 1/32 erase block. These addresses are latched during data entry, erase and lock block.

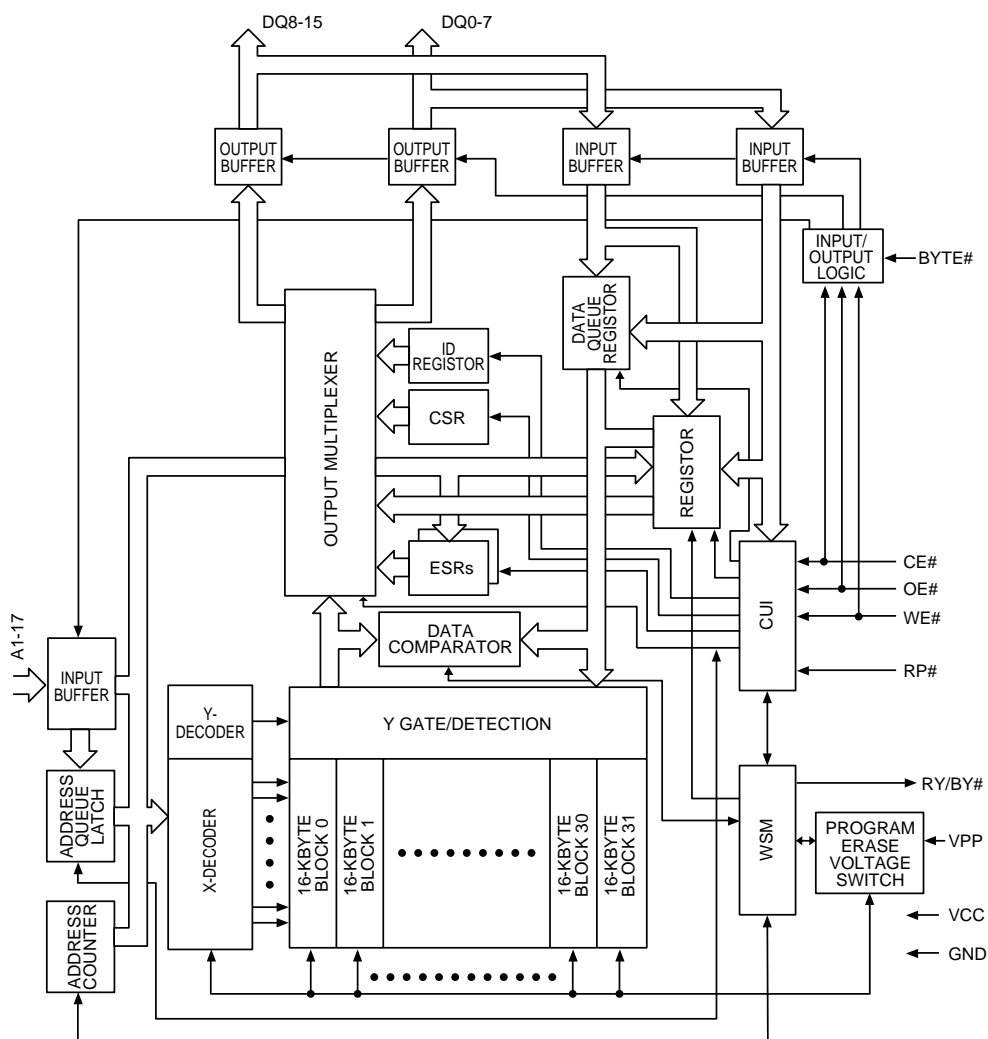


Figure 61 BLOCK DIAGRAM OF IC



## DX-SX1H

### IC901 VHiCXD2751Q-1: SACD Playback Signal Processor (CXD2751Q) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1	XSRQ	Output	Output terminal for data request to be input in the front end processor.
2	XSHD	Input	Input terminal for header flag to be output from the front end processor.
3	VDD	—	Power supply terminal, +3.3V
4	VSS	—	Ground terminal
5	SDCK	Input	Input terminal for data transmitting clock to be output from the front end processor
6	SMUTE	Input	Soft mute terminal H: Soft mute of audio output, L: Released
7	XMSLAT	Input	Latch input terminal for microcomputer serial communication Latches addresses and data when this terminal rises.
8	MSCK	Input	Shift clock input terminal for microcomputer serial communication Inputs and shifts the serial input data when the clock to be input in this terminal rises. Read-out data change when the clock to be input in this terminal falls.
9	MSDATI	Input	Data input terminal for microcomputer serial communication (Microcomputer -> CXD2751Q) Inputs serial data and addresses for communication.
10	MSDATO	Output	Data input terminal for microcomputer serial communication (CXD2751Q -> Microcomputer) High impedance except during output
11	MSREDY	Output	Ready-to-output flag for microcomputer serial communication. Outputs "L", if complete. Open drain.
12*	XMSDOE	Output	Data enable terminal for microcomputer serial communication Makes this terminal active when using the try state buffer outside.
13	XRST	Input	Resets entire IC when reset terminal is "L". Clock which is output from output terminals EXCKO1, EXCKO2, and LRCK does not stop during reset.
14	MCKI	Input	Master clock input terminal Inputs clock of 512Fs (22.579 MHz) or 768Fs (33.869 MHz).
15	VSS	—	Ground terminal
16	CK75S	Input	Master clock select terminal. Selects "H" in case of 768Fs and "L" in case of 512Fs.
17	EXCKO1	Output	External output clock terminal 1. Outputs 768Fs/512Fs/256Fs/128Fs according to setting.
18*	EXCKO2	Output	External output clock terminal 2. Outputs 768Fs/512Fs/256Fs/128Fs according to setting.
19*	LRCK	Input/Output	IFs (44.1kHz) clock input/output terminal. Selects master/slave according to setting.
20*	NC	—	Not used
21*	MNT2	Output	Monitor output terminal. Outputs partial internal operation according to setting.
22	TRST	Input	Reset terminal for test. Inputs power-on reset signal or fixed at "L".
23	TCK	Input	Test clock input terminal. Fixed at "L".
24*	TDI	Input	Test input terminal. Open
25*	TENA1	Input	Test input terminal. Open
26*	TDO	Output	Test input terminal. Open
27	VST	—	Test ground terminal. Connected to ground
28	VDD	—	Power supply terminal, +3.3V
29	VSS	—	Ground terminal
30*, 31*	MNT1, MNT0	Output	Monitor output terminal. Outputs partial internal operation according to setting.
32*	XBIT	Output	DST related monitor terminal. Not connected.
33*	F75HZ	Output	75Hz clock output terminal
34*	SUPDAT	Output	Supplementary data serial output terminal
35*	XSUPAK	Output	Supplementary data effective flag terminal Outputs "L" when supplementary data are effective.
36*	SUPEN	Output	Supplementary data byte-unit enable output terminal Changes to "H" at the break of 1 byte (8 bits) of serial data.
37	TEST1	Input	Test input terminal. Fixed at "L".
38	VSS	—	Ground terminal
39	TEST2	Input	Test input terminal. Fixed at "L".
40, 41	VSS	—	Ground terminal
42*	BCKD	Input/Output	Phase reference signal input/output terminal for DSD data phase modulation output Input/output according to setting
43*-45*	NC	—	Not used

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## IC901 VHiCXD2751Q-1: SACD Playback Signal Processor (CXD2751Q) (2/2)

Pin No.	Terminal Name	Input/Output	Function
46	BCKA	Input/Output	Shift clock input/output terminal for DSD data output. Input/output according to setting.
47	DSAL	Output	Lch-DSD data output terminal. Phase modulation output according to setting.
48	DSAR	Output	Rch-DSD data output terminal. Phase modulation output according to setting.
49	ZDFLGL	Output	Lch zero data detection flag. "H": when silent data continue for 300msec.
50	ZDFLGR	Output	Rch zero data detection flag. "H": when silent data continue for 300msec.
51	A0	Output	DRAM address output terminal (LSB)
52	A1	Output	DRAM address output terminal
53	VDD	—	Power supply terminal, +3.3V
54	VSS	—	Ground terminal
55-62	A2-A9	Output	DRAM address output terminal
63	A10	Output	DRAM address output terminal (MSB)
64*	NC	—	Not used
65	VSS	—	Ground terminal
66	XWE	Output	DRAM write enable output terminal. Connected to WE terminal of DRAM.
67	XCAS	Output	DRAM column address strobe output terminal. Connected to CAS terminal of DRAM.
68	XRAS	Output	DRAM row address strobe output terminal. Connected RAS terminal of DRAM.
69	XOE	Output	DRAM read enable output terminal. Connected OE terminal of DRAM.
70-77	DQ0-DQ7	Input/Output	DRAM data input/output terminal
78	VDD	—	Power supply terminal, +3.3V
79	VSS	—	Ground terminal
80	WCK	Input	Operation clock for detecting PSP physical disc mark. Inputs 27.00MHz.
81	WRFD	Input	RF data input terminal for detecting PSP physical disc mark Inputs RF data made binary by slicer.
82	WAD0	Input	A/D data input/output terminal for detecting PSP physical disc mark (LSB)
83-88	WAD1-WAD6	Input	A/D data input/output terminal for detecting PSP physical disc mark
89	WAD7	Input	A/D data input/output terminal for detecting PSP physical disc mark (MSB)
90	VSS	—	Ground terminal
91	SD7	Input	Input terminal for stream data to be output from the front end processor (MSB)
92-97	SD6-SD1	Input	Input terminal for stream data to be output from the front end processor
98	SD0	Input	Input terminal for stream data to be output from the front end processor (LSB)
99	SDEF	Input	Input terminal for error flag to be output from the front end processor
100	XSAK	Input	Input terminal for data effective flag to be output from the front end processor

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

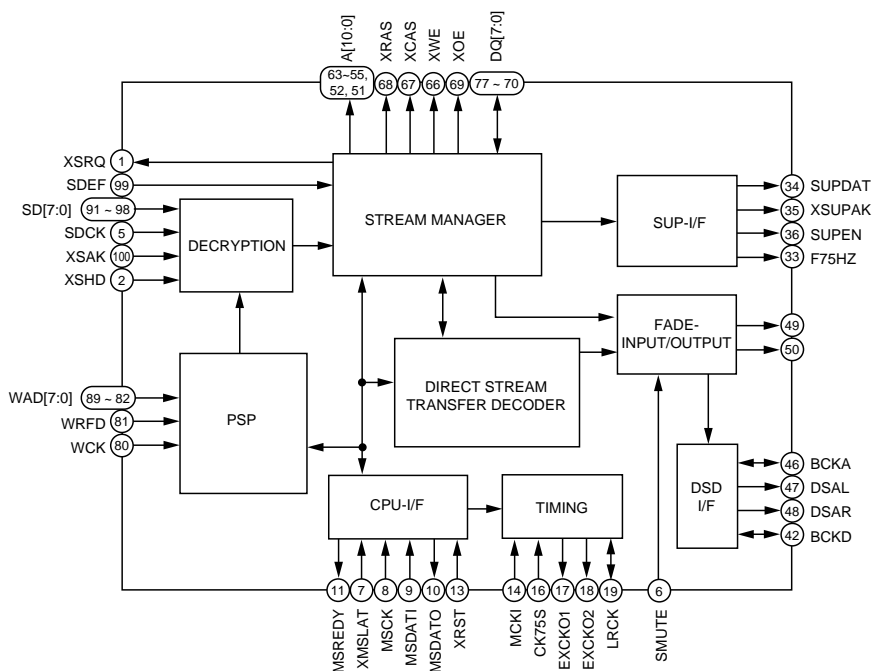


Figure 63 BLOCK DIAGRAM OF IC

DX-SX1H

IC902 VHiADC08351-1: A/D Converter (ADC08351)

Pin No.	Terminal Name	Function
1	$\overline{OE}$	CMOS/TTL compatible digital input terminal. When this terminal is set to Low, digital output of ADC08351 becomes enable. When this terminal is set to High, digital output changes to the high-impedance condition.
2	DGND	Ground return circuit terminal for digital power supply.
3-10	D0-D7	Conversion data output terminal. C0 shows LSB, and D7 shows MBS. Effective data are output on data bus immediately after CLK input rising edge. When $\overline{OE}$ terminal is set to Low, these terminals become enable.
11	VD	Positive digital power voltage terminal. Connected to +3V power supply. VA and VD are supplied from the common power supply.
12	CLK	CMOS/TTL compatible clock input terminal. VIN is sampled at CLK input trailing edge.
13	VD	Positive digital power voltage terminal. Connected to +3V voltage power.
14	VREF	Positive reference voltage input terminal. Voltage of this terminal ranges from 0.75V to VA.
15	PD	CMOS/TTL compatible digital input terminal. When this terminal is set to High, ADC08351 enters the power down mode, minimizing power consumption. When this is set to Low, the device enters the normal operation mode.
16	VA	Positive analog power voltage terminal: To connect +3V voltage power.
17	VIN	Analog signal input. Convertible input ranges from 0.5Vp-p to 0.68Va.
18, 19	AGND	Ground return circuit terminal for analog power supply.
20	DGND	Ground return circuit terminal for digital power supply.

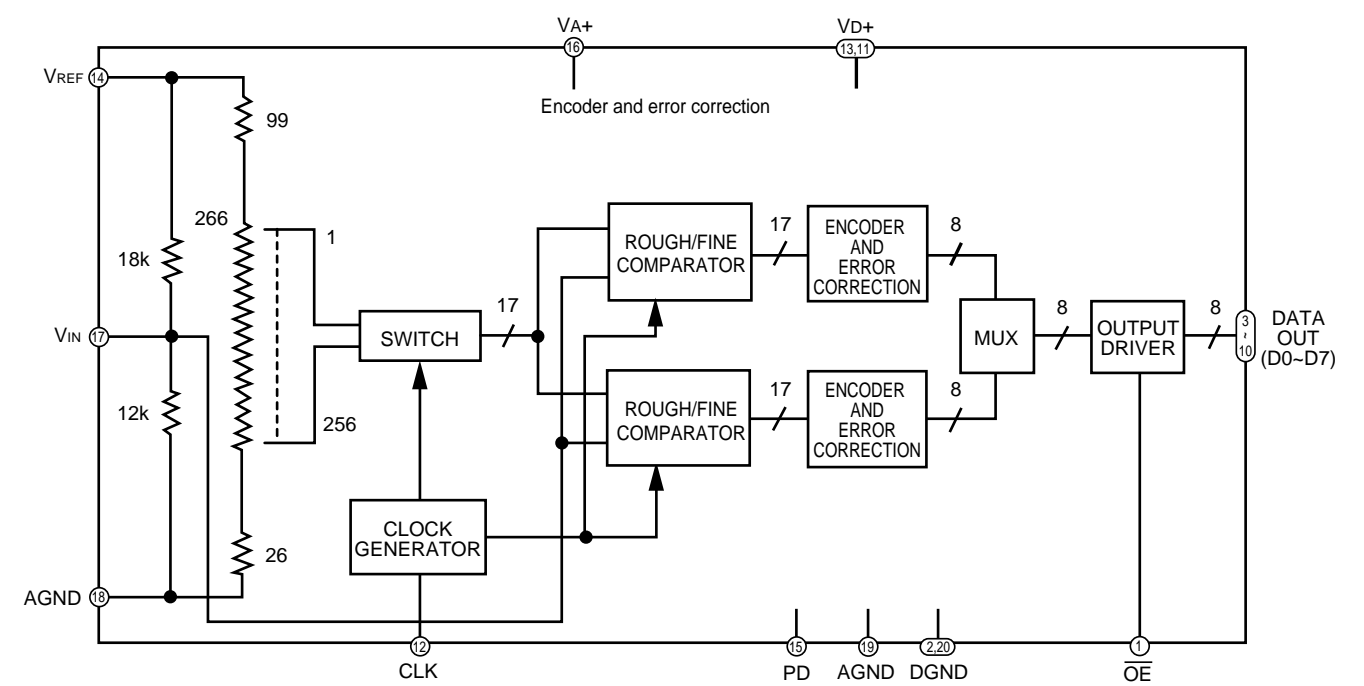


Figure 64 BLOCK DIAGRAM OF IC

**IC903 RH-iX2840AFZZ: 16Mbit SDRAM (IX2840AF)**

Pin No.	Terminal Name	Function
1	VCC	Power supply (3.3V)
2-5	DQ1-DQ4	Data input/output
6	$\overline{WE}$	Write enable
7	$\overline{RAS}$	Row address strobe
8*	NC	Not used
9	A10R	Address input
10-13	A0-A3	Address input
14	VCC	Power supply (3.3V)
15	VSS	Ground (0V)
16-21	A4-A9	Address input
22	$\overline{OE}$	Output enable
23	$\overline{CAS}$	Column address strobe
24-27	DQ5-Q8	Data input/output
28	VSS	Ground (0V)

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

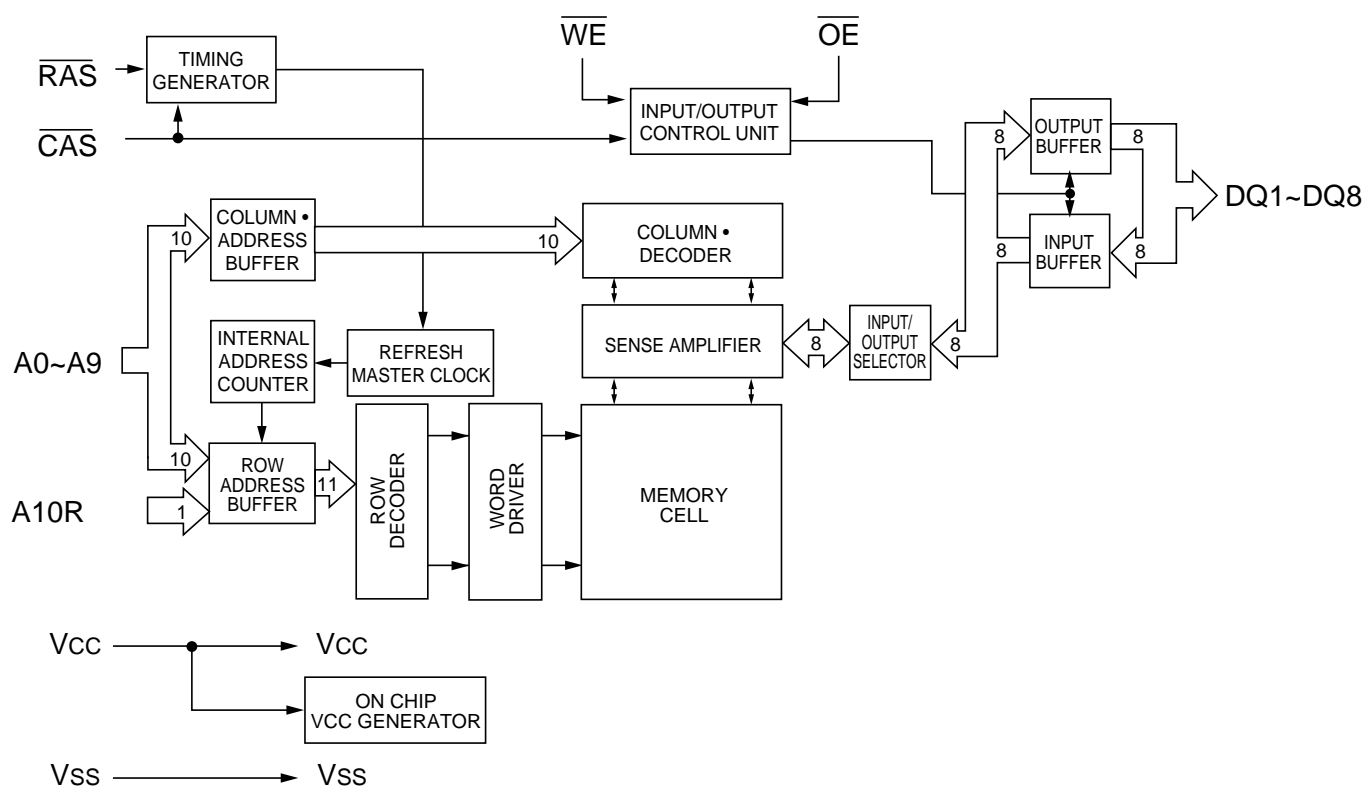
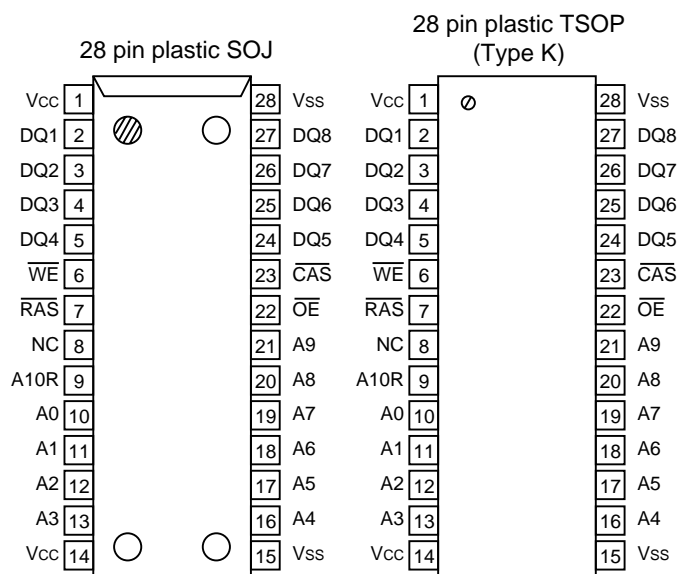


Figure 65 BLOCK DIAGRAM OF IC

WIRING OF PRIMARILY SUPPLY LEADS (FOR U.K. ONLY)

If any one of the bands shown in Fig. 66 is removed for some reason, be sure replace it to the original position and same appearance as before.

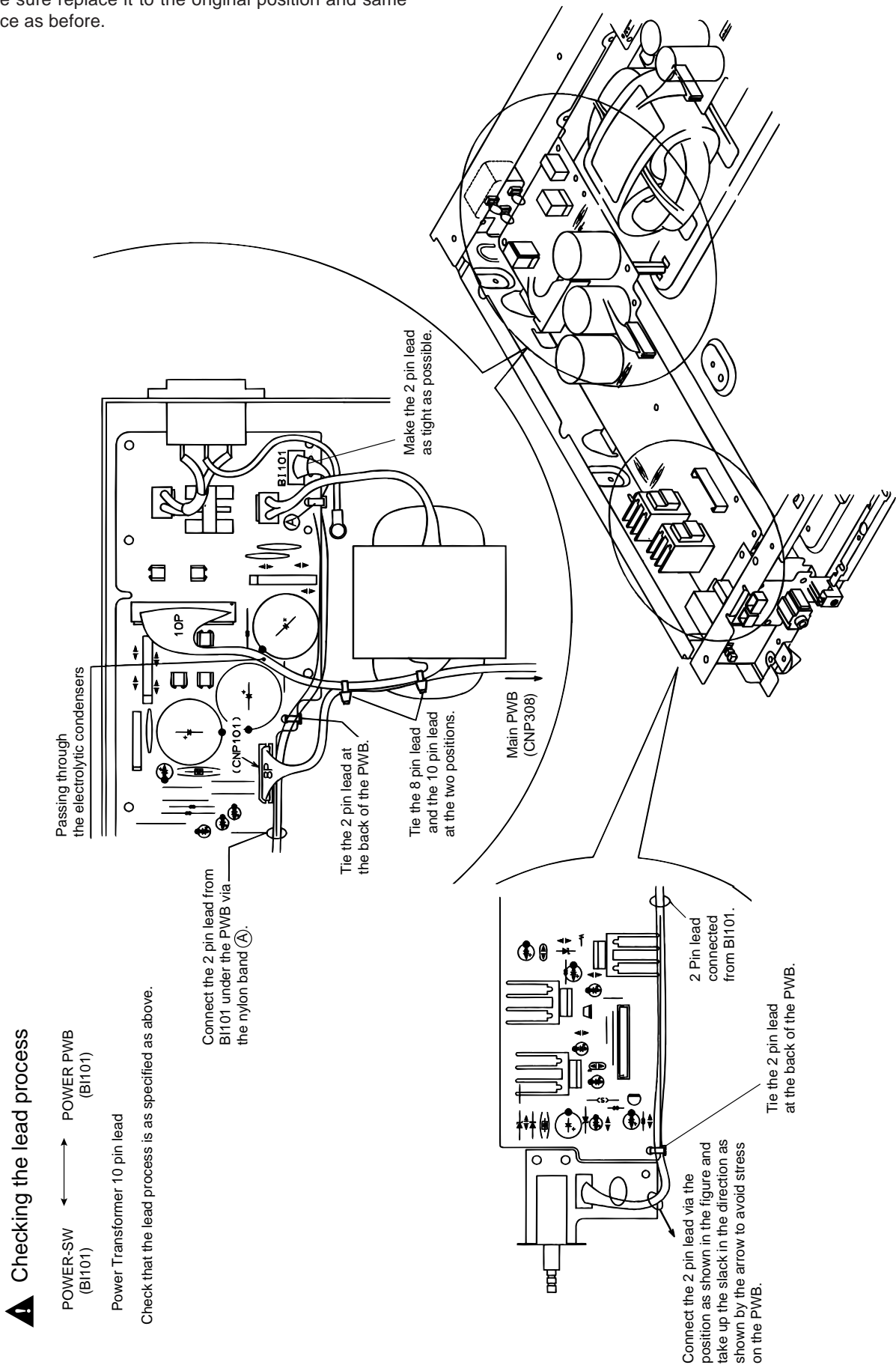


Figure 66

# SHARP PARTS GUIDE

SACD PLAYER

MODEL **DX-SX1H**

**“HOW TO ORDER REPLACEMENT PARTS”**

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER

3. PART NO.
2. REF. No.

4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

**For U.S.A. only**

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,  
Please call Toll-Free;  
1-800-BE-SHARP

## Explanation of capacitors/resistors parts codes

**Capacitors**

VCC ..... Ceramic type  
VCK ..... Ceramic type  
VCT ..... Semiconductor type  
VC •• MF ..... Cylindrical type (without lead wire)  
VC •• MN ..... Cylindrical type (without lead wire)  
VC •• TV ..... Square type (without lead wire)  
VC •• TQ ..... Square type (without lead wire)  
VC •• CY ..... Square type (without lead wire)  
VC •• CZ ..... Square type (without lead wire)  
VC ..... J .. The 13th character represents capacity difference.  
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,  
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)


If there are no indications for the electrolytic capacitors, error is ±20%.

**Resistors**

VRD ..... Carbon-film type  
VRS ..... Carbon-film type  
VRN ..... Metal-film type  
VR •• MF ..... Cylindrical type (without lead wire)  
VR •• MN ..... Cylindrical type (without lead wire)  
VR •• TV ..... Square type (without lead wire)  
VR •• TQ ..... Square type (without lead wire)  
VR •• CY ..... Square type (without lead wire)  
VR •• CZ ..... Square type (without lead wire)  
VR ..... J .. The 13th character represents error.  
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

**NOTE:**

Parts marked with “” are important for maintaining the safety of the set.  
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

## DX-SX1H

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
<b>INTEGRATED CIRCUITS</b>				
IC101	VHIKIA7805P-1	J	AF	Voltage Regulator,KIA7805P
IC102	VHIBP5220+-1	J	AT	DC/DC Converter,BP5220
IC103	VHINJM431L+-1	J	AE	Variable Regulator,NJM431L
IC201	VHIMN12510F-1	J	AM	FL Driver,MN12510F
IC301	VHISM6451AV-1	J	AN	Volume Control,SM6451AV
IC302	VHIDSD1700E-1	J	AZ	DSD Converter,DSD1700E
IC303	VHIPCM1716E-1	J	AS	CD D/A Converter,PCM1716E
IC304	VHIDSD1700E-1	J	AZ	DSD Converter,DSD1700E
IC305~307	RH-IX2838AFZZ	J	AP	Line Amp.,IX2838AF
IC308	VHINJM4580M-1	J	AE	Headphones Amp.,NJM4580M
IC309,310	RH-IX2838AFZZ	J	AP	Line Amp.,IX2838AF
IC312	VHIKIA7805I-1	J	AE	5V Voltage Regulator, KIA7805API
IC314	VHIKIA7805I-1	J	AE	5V Voltage Regulator, KIA7805API
IC316	VHIKIA7809I-1	J	AE	9V Voltage Regulator,KIA7809PI
IC317	VHIKIA7909I-1	J	AE	-9V Voltage Regulator, KIA7909PI
IC318	RH-IX2838AFZZ	J	AP	Line Amp.,IX2838AF
IC321	VHITC7WU04U-1	J	AG	3-Circuit Inverter,TC7WU04FU
IC323~325	VHI74HCT08A-1	J	AD	4x2-Input AND Gate, TC74HCT08A
IC326,327	RH-IX2838AFZZ	J	AP	Line Amp.,IX2838AF
IC328	VHITC7WU04U-1	J	AG	3-Circuit Inverter,TC7WU04FU
IC501	VHITA1244FN-1	J	AP	I/V Converter Amp.,TA1244FN
IC502	RH-IX1517GEZZ	J	AU	RF Signal Processor,IX1517GE
IC503	VHITB6504F+-1	J	AQ	Stepping Motor Driver,TB6504F
IC504	RH-IX2842AFZZ	J	AM	Spindle Motor Driver,IX2842AF
IC505	VHINJM324V/-1	J	AE	4-Circuit Ope Amp.,NJM324V
IC506	VHIBA6796FP-1	J	AV	Loading/Focus/Tracking/Spin/ Sled Driver,BA6796FP
IC507	VHIHC4053FS-1	J	AG	Analog Switch,HC4053FS
IC508	VHINJM2904M-1	J	AH	Ope Amp.,NJM2904M
IC601	VHIAD8052AR-1	J	AR	Dual Ope Amp.,AD8052AR
IC602	RH-IX1474GEZZ	J	BC	SACD Data Processor, IX1474GE
IC603	VHISC514870SJ	J	AU	4Mbit DRAM,SC514870SJ
IC604	VHITC7WH74U-1	J	AF	1/2 Dividing,TC7WH74FU
IC605	VHITC7WU04U-1	J	AG	3-Circuit Inverter,TC7WU04FU
IC606	RH-IX1473GEZZ	J	AY	Digital Servo,IX1473GE
IC801	RH-IX1478GEZZ	J	AZ	System Microcomputer, IX1478GE
IC802	RH-IX1535GEZZ	J	AN	Input/Output Expander, IX1535GE
IC803	VHIPST9129N-1	J	AE	Reset,PST9129N
IC804	RH-IX2839AFZZ	J	AT	1Mbit SRAM,IX2839AF
IC805	RH-IX1539GEZZ	J	AX	Flash ROM (4M),IX1539GE
IC901	VHICXD2751Q-1	J	BT	SACD Playback Signal Processor,CXD2751Q
IC902	VHIADC0835I-1	J	AN	A/D Converter,ADC0835I
IC903	RH-IX2840AFZZ	J	AX	16Mbit SDRAM,IX2840AF

## TRANSISTORS

Q117	VS2SD2061F/-1	J	AG	Silicon,NPN,2SD2061 F
Q118	VS2SC1740SR-1	J	AB	Silicon,NPN,2SC1740 SR
Q119	VS2SD1858R2-1	J	AC	Silicon,NPN,2SD1858 R2
Q121	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q203	VS2SA1037KR-1	J	AB	Silicon,PNP,2SA1037 KR
Q204	VSDTC124EK/-1	J	AB	Digital,NPN,DTC124 EK
Q302	VSDTA114YK/-1	J	AB	Digital,PNP,DTA114 YK
Q303,304	VS2SC2878B/-1	J	AC	Silicon,NPN,2SC2878 B
Q305,306	VSDTC114YK/-1	J	AB	Digital,NPN,DTC114 YK
Q307	VSDTC323TK/-1	J	AB	Digital,NPN,DTC323 TK
Q309	VSDTC323TK/-1	J	AB	Digital,NPN,DTC323 TK
Q310	VS2SC2412KR-1	J	AB	Silicon,NPN,2SC2412 KR
Q311~314	VS2SC2878B/-1	J	AC	Silicon,NPN,2SC2878 B
Q316	VSDTC114YS/-1	J	AB	Digital,NPN,DTC114 YS
Q501	VS2SA1037KR-1	J	AB	Silicon,PNP,2SA1037 KR
Q502	VSDTC144EK/-1	J	AB	Digital,NPN,DTC144 EK
Q503,504	VS2SA1955A/-1	J	AC	Silicon,PNP,2SA1955 A
Q505~507	VSDTC144EK/-1	J	AB	Digital,NPN,DTC144 EK
Q601	VSDTA144EK/-1	J	AB	Digital,PNP,DTA144 EK
Q602	VSDTC144EK/-1	J	AB	Digital,NPN,DTC144 EK
Q801	VSDTC144EK/-1	J	AB	Digital,NPN,DTC144 EK

## DIODES

D101	VHD11ES4//I-1	J	AB	Silicon,11ES4
D108	VHDD4SBS6++-1	J	AH	Rectifier Diode,D4SBS6

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
D109	VHDD4SB60L+-1	J	AG	Rectifier Diode,D4SB60L
D201	VHDDAP202K/-1	J	AB	Silicon,DAP202K
D203	VHDDAP202K/-1	J	AB	Silicon,DAP202K
D301~303	VHDDAP202K/-1	J	AB	Silicon,DAP202K
D304,305	VHDBR491D//I-1	J	AD	Silicon,RB491D
D306	VHDDAP202K/-1	J	AB	Silicon,DAP202K
D310	VHDDA204K//I-1	J	AB	Silicon,DA204K
D501~504	VHDBR521S30-1	J	AC	Silicon,RB521S30
D505	VHDDAP202K/-1	J	AB	Silicon,DAP202K
D801	VHDDAN202K/-1	J	AB	Silicon,DAN202K
D802	VHDDAP202K/-1	J	AB	Silicon,DAP202K
DZ113	VHEMTZJ9R1B-1	J	AB	Zener,9.1V,MTZJ9.1B
DZ114	VHEHZS30L3/-1	J		Zener,30V,HZS30L3
DZ115	VHEMTZJ6R2C-1	J	AC	Zener,6.2V,MTZJ6.2C
DZ301	VHEUDZ2R0B/-1	J	AC	Zener,2V,UDZ2.0B
DZ302~305	VHEUDZS5R6B-1	J	AC	Zener,5.6V,UDZS5.6B
DZ501	VHEUDZS5R1B-1	J	AC	Zener,5.1V,UDZS5.1B
PH51~53	VHPRP1222+-1	J		Photo Interrupter,RP1222

## TRANSFORMERS

△ T101	RTRNP1910AFZZ	J	BH	Power
T301	RTRNL0107AFZZ	J	AE	Pulse Power

## COILS

△ L102	RCILZ0018AFZZ	J		Line Filter
L301	VP-XF1R8K0000	J	AC	1.8 μH
L302,303	VP-XF101K0000	J	AB	100 μH,Choke
L306,307	VP-XF1R8K0000	J	AC	1.8 μH
L501~503	VPANM100J0000	J	AC	10 μH
L601	VPANM470J0000	J	AC	47 μH
L602	VPANM1R0J0000	J	AC	1 μH
L801	VPANM470J0000	J	AC	47 μH
L901	VPANM100J0000	J	AC	10 μH

## VIBRATORS

FL801	RCRM-0204AFZZ	J	AE	Ceramic,20 MHz
X301	RCRSC0035GEZZ	J	AH	Crystal,33.8688 MHz
X602	RCRSC0031AFZZ	J	AH	Crystal,54.000 MHz
XLF201	RCRM-0009AWZZ	J	AF	Ceramic,4.000 MHz

## THERMISTORS

△ RP101,102	RH-QX0002AWZZ	J	AK	Posistor,0.7 ohms
△ RP103	RH-QX0003AWZZ	J	AK	Posistor,2.2 ohms
△ RP105	RH-QX0003AWZZ	J	AK	Posistor,2.2 ohms
△ RP106,107	RH-QX0002AWZZ	J	AK	Posistor,0.7 ohms
△ RP108	RH-QX1067AFZZ	J	AE	Posistor,8.2 ohms
△ RP109	RH-QX0003AWZZ	J	AK	Posistor,2.2 ohms

## CAPACITORS

C101,102	RC-GZA226AF1H	J	AB	22 μF,50V,Electrolytic
C104	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
C105,106	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C108	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C109,110	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
C111	RC-GZA107AF1C	J	AB	100 μF,16V,Electrolytic
C114	RC-EZ1708AFZZ	J	AL	6800 μF,25V,Electrolytic
C116	VCKYPA1HB102K	J	AA	0.001 μF,50V
C118	VCKYPA1HF103Z	J	AB	0.01 μF,16V
C119	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C120	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C121	VCKYPA1HF103Z	J	AB	0.01 μF,16V
C123	RC-GZA336AF1H	J	AB	33 μF,50V,Electrolytic
C124	RC-GZA107AF1E	J	AB	100 μF,25V,Electrolytic
C125,126	VCFYDA1HA104J	J	AB	0.1 μF,50V,Thin Film
C127	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
C128,129	VCFYDA1HA104J	J	AB	0.1 μF,50V,Thin Film
C130,131	VCKYPA1HF103Z	J	AB	0.01 μF,16V
C133,134	VCFYDA1HA104J	J	AB	0.1 μF,50V,Thin Film
C135	RC-GZA106AF1H	J	AB	10 μF,50V,Electrolytic
C136,137	VCFYDA1HA104J	J	AB	0.1 μF,50V,Thin Film
C138	RC-GZV227AF1H	J	AC	220 μF,50V,Electrolytic
C139	VCKYPA1HF103Z	J	AB	0.01 μF,16V
C140	RC-GZA107AF1E	J	AB	100 μF,25V,Electrolytic
△ C145	RC-KZ0093GEZZ	J	AG	0.0047 μF,250V,Electrolytic
C151,152	RC-EZ1709AFZZ	J	AL	3900 μF,25V,Electrolytic
C153	VCKYBT1HB102K	J	AA	0.001 μF,50V
C160	VCKYBT1HB102K	J	AA	0.001 μF,50V



NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C201	VCKYTV1HF104Z	J	AA	0.1 μF,50V	C459,460	VCKYTV1EB104K	J	AA	0.1 μF,25V
C202	VCKYTV1HB473K	J	AA	0.047 μF,50V	C461,462	VCKYTV1HB221K	J	AA	220 pF,50V
C203	VCKYTV1HB103K	J	AA	0.01 μF,50V	C463,464	RC-EZ0476GEZZ	J	AC	100 μF,16V,Electrolytic
C204	VCEAPW1CW106M	J	AD	10 μF,16V,Electrolytic	C465,466	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic
C205	VCKYTV1HB103K	J	AA	0.01 μF,50V	C467,468	VCKYTV1HB272K	J	AA	0.0027 μF,50V
C206~208	VCCCTV1HH330J	J	AA	33 pF (CH),50V	C469,470	VCFRED1HM102J	J	AD	0.001 μF,50V
C209	VCKYTV1HB473K	J	AA	0.047 μF,50V	C472	VCKYTV1HB103K	J	AA	0.01 μF,50V
C211	VCEAPS476AF0J	J	AC	47 μF,6.3V,Electrolytic	C473,474	RC-EZ0476GEZZ	J	AC	100 μF,16V,Electrolytic
C212	VCKYTV1HF104Z	J	AA	0.1 μF,50V	C475	VCKYTV1HB102K	J	AA	0.001 μF,50V
C213,214	VCCCTV1HH151J	J	AA	150 pF (CH),50V	C479,480	VCKYTV1HB102K	J	AA	0.001 μF,50V
C303	VCKYTV1HB102K	J	AA	0.001 μF,50V	C485	VCKYTV1HB102K	J	AA	0.001 μF,50V
C304,305	VCCCTV1HH100D	J	AA	10 pF (CH),50V	C487	VCKYTV1HB102K	J	AA	0.001 μF,50V
C306~308	VCKYTV1HB103K	J	AA	0.01 μF,50V	C492	VCKYTV1HB102K	J	AA	0.001 μF,50V
C309	VCCCTV1HH101J	J	AA	100 pF (CH),50V	C501,502	VCKYCY1HB472K	J	AA	0.0047 μF,50V
C310~313	VCKYTV1EB104K	J	AA	0.1 μF,25V	C503~507	VCKYTV1CF105Z	J	AB	1 μF,16V
C314,315	VCKYTV1HB103K	J	AA	0.01 μF,50V	C508,509	VCKYCY1HB472K	J	AA	0.0047 μF,50V
C316~318	VCKYTV1EB104K	J	AA	0.1 μF,25V	C510	VCEAPW1AW476M	J	AD	47 μF,10V,Electrolytic
C320,321	VCKYTV1EB104K	J	AA	0.1 μF,25V	C511	VCKYCY1CB104K	J	AB	0.1 μF,16V
C322	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C512	VCKYCY1HB332K	J	AA	0.0033 μF,50V
C323~325	VCKYTV1EB104K	J	AA	0.1 μF,25V	C513~516	VCKYCY1EB103K	J	AA	0.01 μF,25V
C326~328	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C517	VCKYCY1CB104K	J	AB	0.1 μF,16V
C329	VCKYTV1EB104K	J	AA	0.1 μF,25V	C518	VCEAPW1CW106M	J	AD	10 μF,16V,Electrolytic
C330	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C519,520	VCKYCY1CB104K	J	AB	0.1 μF,16V
C332	VCKYTV1EB104K	J	AA	0.1 μF,25V	C521,522	VCKYCY1EB103K	J	AA	0.01 μF,25V
C333	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C523	VCEAPW1AW476M	J	AD	47 μF,10V,Electrolytic
C334	VCKYTV1EB104K	J	AA	0.1 μF,25V	C524~526	VCKYCY1CB104K	J	AB	0.1 μF,16V
C335	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C527	VCKYCY1EB103K	J	AA	0.01 μF,25V
C336	VCKYTV1HB331K	J	AA	330 pF,50V	C528	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C337	VCKYTV1EB104K	J	AA	0.1 μF,25V	C529	VCEAPW1AW476M	J	AD	47 μF,10V,Electrolytic
C338	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C530	VCKYCY1HB222K	J	AA	0.0022 μF,50V
C340,341	VCFRED1HM682J	J	AD	0.0068 μF,50V	C531	VCKYCY1HB103K	J	AA	0.01 μF,50V
C342,343	VCKYTV1HB153K	J	AA	0.015 μF,50V	C532,533	VCKYCY1CB104K	J	AB	0.1 μF,16V
C344,345	VCKYTV1HB272K	J	AA	0.0027 μF,50V	C534	VCKYCY1HB332K	J	AA	0.0033 μF,50V
C346	VCKYTV1EB104K	J	AA	0.1 μF,25V	C535	VCKYCY1CB104K	J	AB	0.1 μF,16V
C347	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C536,537	VCEAPW1CW476M	J	AD	47 μF,16V,Electrolytic
C348,349	VCFRED1HM102J	J	AD	0.001 μF,50V	C538	VCKYCY1CB104K	J	AB	0.1 μF,16V
C350,351	VCKYTV1HB332K	J	AA	0.0033 μF,50V	C539	VCKYCY1EB103K	J	AA	0.01 μF,25V
C354,355	RC-EZ0476GEZZ	J	AC	100 μF,16V,Electrolytic	C540	VCKYCY1CB104K	J	AB	0.1 μF,16V
C356	VCKYTV1EB104K	J	AA	0.1 μF,25V	C541	VCEAPW1HW225M	J	AC	2.2 μF,50V,Electrolytic
C357	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C542	VCKYCY1EB103K	J	AA	0.01 μF,25V
C358	VCKYTV1HB103K	J	AA	0.01 μF,50V	C543	VCKYCY1HB102K	J	AA	1000 pF,50V
C360	VCKYTV1HB103K	J	AA	0.01 μF,50V	C544	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C362	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C545	VCKYCY1EB103K	J	AA	0.01 μF,25V
C364	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C546	VCEAPW0JW226M	J	AC	22 μF,6.3V,Electrolytic
C366~369	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C547	VCKYCY1CB104K	J	AB	0.1 μF,16V
C372	RC-GZA107AF1E	J	AB	100 μF,25V,Electrolytic	C548	VCKYCY1EB103K	J	AA	0.01 μF,25V
C374,375	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C549	VCKYCY1HB102K	J	AA	1000 pF,50V
C376	VCCCTV1HH470J	J	AA	47 pF (CH),50V	C550	VCKYCY1HB222K	J	AA	0.0022 μF,50V
C379,380	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C551,552	VCKYCY1HB102K	J	AA	1000 pF,50V
C383,384	VCKYTV1HB103K	J	AA	0.01 μF,50V	C553	VCKYTV1CF105Z	J	AB	1 μF,16V
C385	VCCCTV1HH470J	J	AA	47 pF (CH),50V	C554	VCKYCY1HB102K	J	AA	1000 pF,50V
C388,389	RC-EZ0476GEZZ	J	AC	100 μF,16V,Electrolytic	C555,556	VCKYCY1HB222K	J	AA	0.0022 μF,50V
C390,391	RC-EZ1702AFZZ	J	AC	47 μF,10V,Electrolytic	C557	VCKYCY1EB103K	J	AA	0.01 μF,25V
C396,397	RC-EZ1706AFZZ	J	AF	1000 μF,25V,Electrolytic	C558	VCKYCY1CB104K	J	AB	0.1 μF,16V
C398,399	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic	C559	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C402,403	VCCCTV1HH101J	J	AA	100 pF (CH),50V	C560	VCKYTV1CF105Z	J	AB	1 μF,16V
C405,406	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C561	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C409	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C562	VCKYCY1CB104K	J	AB	0.1 μF,16V
C410	VCKYTV1EB104K	J	AA	0.1 μF,25V	C563,564	VCKYCY1HB472K	J	AA	0.0047 μF,50V
C411	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C565~567	VCKYCY1CB104K	J	AB	0.1 μF,16V
C413,414	VCCCTV1HH270J	J	AA	27 pF (CH),50V	C568	VCEAPW0JW107M	J	AD	100 μF,6.3V,Electrolytic
C415,416	RC-EZ1702AFZZ	J	AC	47 μF,10V,Electrolytic	C569	VCEAPW1CW106M	J	AD	10 μF,16V,Electrolytic
C417,418	VCCCTV1HH270J	J	AA	27 pF (CH),50V	C570~573	VCKYCY1CB104K	J	AB	0.1 μF,16V
C419,420	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C574	VCKYTV1HF104Z	J	AA	0.1 μF,50V
C425,426	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C601	VCKYCY1HB471K	J	AA	470 pF,50V
C427,428	VCKYTV1EB104K	J	AA	0.1 μF,25V	C602	VCKYCY1EB103K	J	AA	0.01 μF,25V
C429	RC-GZA336AF1C	J	AB	33 μF,16V,Electrolytic	C603	VCEAPW0JW107M	J	AD	100 μF,6.3V,Electrolytic
C430	VCKYTV1HB103K	J	AA	0.01 μF,50V	C604	VCKYCY1HB332K	J	AA	0.0033 μF,50V
C431	RC-GZA107AF1A	J	AB	100 μF,25V,Electrolytic	C605	VCKYCY1CB104K	J	AB	0.1 μF,16V
C432	VCKYTV1HB103K	J	AA	0.01 μF,50V	C606	VCEAPW0JW107M	J	AD	100 μF,6.3V,Electrolytic
C433,434	VCCCTV1HH470J	J	AA	47 pF (CH),50V	C607	VCCCTV1HH331J	J	AA	330 pF (CH),50V
C436	VCCCTV1HH470J	J	AA	47 pF (CH),50V	C609	VCCCTV1HH101J	J	AA	100 pF (CH),50V
C439,440	RC-EZ0468GEZZ	J	AC	10 μF,16V,Electrolytic	C610	VCCCTV1HH331J	J	AA	330 pF (CH),50V
C441~444	VCFRED1HM471J	J	AD	470 pF,50V	C611~613	VCKYCY1EB103K	J	AA	0.01 μF,25V
C445~448	VCKYTV1EB104K	J	AA	0.1 μF,25V	C614	VCKYCY1CB473K	J	AA	0.047 μF,16V
C449~452	VCKYTV1HB471K	J	AA	470 pF,50V	C615	VCKYCY1CB333K	J	AA	0.033 μF,16V
C453	VCKYTV1EB104K	J	AA	0.1 μF,25V	C616	VCKYCY1EB103K	J	AA	0.01 μF,25V
C454	VCFRED1HM102J	J	AD	0.001 μF,50V	C617	VCCCTV1HH220J	J	AA	22 pF (CH),50V
C455	VCKYTV1HB221K	J	AA	220 pF,50V	C618	VCKYTV1CF105Z	J	AB	1 μF,16V
C456	VCKYTV1EB104K	J	AA	0.1 μF,25V	C619	VCKYCY1EB103K	J	AA	0.01 μF,25V
C457	VCFRED1HM102J	J	AD	0.001 μF,50V	C620	VCKYTV1CF105Z	J	AB	1 μF,16V
C458	VCKYTV1HB221K	J	AA	220 pF,50V	C621,622	VCKYCY1EB103K	J	AA	0.01 μF,25V

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C623	VCKYCY1HB471K	J	AA	470 pF,50V
C625,626	VCKYCY1EB103K	J	AA	0.01 μF,25V
C627	VCEAPW0JW107M	J	AD	100 μF,6.3V,Electrolytic
C628	VCKYCY1EB103K	J	AA	0.01 μF,25V
C629	VCKYCY1CB104K	J	AB	0.1 μF,16V
C630	VCKYCY1CB473K	J	AA	0.047 μF,16V
C631	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C632	VCKYCY1EB103K	J	AA	0.01 μF,25V
C633,634	VCKYCY1HB472K	J	AA	0.0047 μF,50V
C635,636	VCKYCY1EB103K	J	AA	0.01 μF,25V
C637	VCKYCY1CB104K	J	AB	0.1 μF,16V
C638	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C639,640	VCKYCY1EB103K	J	AA	0.01 μF,25V
C641	VCKYCY1HB471K	J	AA	470 pF,50V
C642	VCCCCY1HH221J	J	AA	220 pF (CH),50V
C643~645	VCKYCY1EB103K	J	AA	0.01 μF,25V
C646	VCKYCY1HB272K	J	AA	0.0027 μF,50V
C647~650	VCKYCY1EB103K	J	AA	0.01 μF,25V
C651	VCKYCY1HB153K	J	AA	0.015 μF,50V
C652	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C654	VCKYCY1EB103K	J	AA	0.01 μF,25V
C655	VCKYCY1CB104K	J	AB	0.1 μF,16V
C656	VCEAPW0JW107M	J	AD	100 μF,6.3V,Electrolytic
C657	VCCCCY1HH470J	J	AA	47 pF (CH),50V
C658	VCKYCY1EB103K	J	AA	0.01 μF,25V
C659	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C660,661	VCKYCY1EB103K	J	AA	0.01 μF,25V
C662	VCKYCY1HB103K	J	AA	0.01 μF,50V
C663,664	VCKYCY1EB103K	J	AA	0.01 μF,25V
C665,666	VCKYCY1CB104K	J	AB	0.1 μF,16V
C667,668	VCKYCY1EB103K	J	AA	0.01 μF,25V
C669	VCKYCY1HB102K	J	AA	1000 pF,50V
C670~672	VCCCCY1HH100D	J	AA	10 pF (CH),50V
C673	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C801	VCKYCY1CB104K	J	AB	0.1 μF,16V
C802,803	VCKYCY1EB103K	J	AA	0.01 μF,25V
C804	VCKYTV1CF105Z	J	AB	1 μF,16V
C805	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C806	VCKYCY1CB104K	J	AB	0.1 μF,16V
C807~820	VCKYCY1EB103K	J	AA	0.01 μF,25V
C821	VCEAPW0JW226M	J	AC	22 μF,6.3V,Electrolytic
C822	VCKYCY1HB102K	J	AA	1000 pF,50V
C901	VCKYCY1EB103K	J	AA	0.01 μF,25V
C902	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C903,904	VCKYCY1EB103K	J	AA	0.01 μF,25V
C905	VCEAPW1CW106M	J	AD	10 μF,16V,Electrolytic
C906,907	VCKYCY1CB104K	J	AB	0.1 μF,16V
C908~910	VCKYCY1EB103K	J	AA	0.01 μF,25V
C911	VCEAPW0JW476M	J	AC	47 μF,6.3V,Electrolytic
C912	VCKYCY1CB104K	J	AB	0.1 μF,16V
C913~917	VCKYCY1EB103K	J	AA	0.01 μF,25V
C918~920	VCKYCY1CB104K	J	AB	0.1 μF,16V

## RESISTORS

	VRS-CY1JB000J	J	AA	0 ohm,Jumper,0.8×1.55mm,Green
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R50A	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R101	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R102	VRD-ST2EE272J	J	AA	2.7 kohms,1/4W
R107	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R178	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R181	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R183	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R184	VRD-ST2EE471J	J	AA	470 ohms,1/4W
R185	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R187	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R188	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R190	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R191	VRD-RT2HD152J	J	AA	1.5 kohms,1/2W
R192,193	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R201	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R202	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R203	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R204	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R206	VRS-TV2AB821J	J	AA	820 ohms,1/10W
R208	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R209	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R210	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R212	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R213~215	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R216~223	VRS-TV2AB333J	J	AA	33 kohms,1/10W

R224	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R225	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R226	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R301	VRS-TV2AB560J	J	AA	56 ohms,1/10W
R302	VRS-TV2AB330J	J	AA	33 ohms,1/10W
R303	VRS-TV2AB560J	J	AA	56 ohms,1/10W
R304	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R305	VRS-TV2AB105J	J	AA	1 Mohm,1/10W
R306~308	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R309	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R310	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R311,312	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R313	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R314	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R315	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R316	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R317	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R318	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R319	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R320	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R322	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R323	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R326	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R327,328	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R329	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R330,331	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R332	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R335	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R336,337	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R338	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R339	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R340	VRS-TV2AB330J	J	AA	33 ohms,1/10W
R341,342	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R343	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R344~347	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R348,349	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R350,351	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R352	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R354	VRS-TV2AB680J	J	AA	68 ohms,1/10W
R355,356	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R357	VRS-TV2AB680J	J	AA	68 ohms,1/10W
R358~361	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R362	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R363	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R364	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R365	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R366	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R367	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R368,369	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R376,377	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R378	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R379~381	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
R383	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R384,385	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R386	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R389	VRS-TV2AB680J	J	AA	68 ohms,1/10W
R390,391	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R392,393	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R395,396	VRS-TV2AB822J	J	AA	8.2 kohms,1/10W
R397,398	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R399,400	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R404	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R405	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R409	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R410	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R411	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R413	VRS-TQ2BB101J	J	AA	100 ohm,1/8W
R415	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R416	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R418	VRS-TQ2BB101J	J	AA	100 ohm,1/8W
R425~428	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R429	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R433,434	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R435,436	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R438,439	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R440,441	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R443,444	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R445	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R446,447	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R448	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R449	VRS-TV2AB100J	J	AA	10 ohm,1/10W
R451,452	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R457,458	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R459~461	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R462	VRS-TV2AB680J	J	AA	68 ohms,1/10W
R463~467	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R468~471	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R472	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R473	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R476,477	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R479	VRS-TV2AB100J	J	AA	10 ohm,1/10W
R480	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R482	VRS-TV2AB680J	J	AA	68 ohms,1/10W
R484~486	VRS-TV2AB680J	J	AA	68 ohms,1/10W
R491	VRS-TV2AB680J	J	AA	68 ohms,1/10W
R492	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R493	VRS-TV2AB330J	J	AA	33 ohms,1/10W
R494,495	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R496	VRS-TV2AB100J	J	AA	10 ohm,1/10W
R497~499	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R501	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R502	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R503,504	VRS-CY1JB2R7J	J	AA	2.7 ohms,1/16W
R505,506	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R507	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R510	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R511	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R512,513	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R518	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R519	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R520	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R521	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R522~524	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R525	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R526	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R527	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R528	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R529	VRS-CY1JB471J	J	AA	470 ohms,1/16W
R530~534	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R535	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R536	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R537	VRS-CY1JB1R5J	J	AA	1.5 ohms,1/16W
R539	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R540	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R541,542	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R544	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R545	VRS-CY1JB471J	J	AA	470 ohms,1/16W
R546	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R547	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R550,551	VRS-CY1JB1R5J	J	AA	1.5 ohms,1/16W
R563	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R570	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R571	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R574	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R575	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R577	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R580,581	VRS-CY1JB335J	J	AA	3.3 Mohms,1/16W
R582	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R583	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R584,585	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R587	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R588	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R589	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R590	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R591	VRS-CY1JB103F	J	AA	10 kohm,1/16W
R592	VRS-CY1JB563F	J	AA	56 kohms,1/16W
R593	VRS-CY1JB391J	J	AA	390 ohms,1/16W
R594	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R595	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R598	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R599	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R601	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R602	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R603	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R604	VRS-CY1JB103F	J	AA	10 kohm,1/16W
R605	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R606	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R607	VRS-CY1JB153F	J	AA	15 kohms,1/16W
R608	VRS-CY1JB224J	J	AA	220 kohms,1/16W
R609	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R610	VRS-CY1JB330J	J	AA	33 ohms,1/16W
R611	VRS-CY1JB103F	J	AA	10 kohm,1/16W
R612	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R613	VRS-CY1JB103J	J	AA	10 kohm,1/16W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R614	VRS-CY1JB330J	J	AA	33 ohms,1/16W
R615,616	VRS-CY1JB471J	J	AA	470 ohms,1/16W
R618	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R619	VRS-CY1JB274J	J	AA	270 kohms,1/16W
R620	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R621	VRS-CY1JB103F	J	AA	10 kohm,1/16W
R622	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R623	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R624,625	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R626	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R627,628	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R629	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R630,631	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R632,633	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R634	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R635	VRS-CY1JB335J	J	AA	3.3 Mohms,1/16W
R636	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R637	VRS-CY1JB124J	J	AA	120 kohms,1/16W
R639	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R640	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R641~643	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R644,645	VRS-CY1JB224J	J	AA	220 kohms,1/16W
R646~648	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R649	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R650	VRS-CY1JB105J	J	AA	1 Mohm,1/16W
R801	VRS-CY1JB824J	J	AA	820 kohms,1/16W
R802,803	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R804	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R805	VRS-CY1JB824J	J	AA	820 kohms,1/16W
R806	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R807	VRS-CY1JB824J	J	AA	820 kohms,1/16W
R808,809	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R810~816	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R817~820	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R821~823	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R824,825	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R826~829	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R830	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R831	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R832,833	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R834	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R835,836	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R838	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R839	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R840~842	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R843~845	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R846	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R848	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R849	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R852	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R853~855	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R856~860	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R861	VRS-CY1JB391J	J	AA	390 ohms,1/16W
R862	VRS-CY1JB181J	J	AA	180 ohms,1/16W
R863	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R864	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R865	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R866	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R867	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R869,870	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R871,872	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R901~905	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R906	VRS-CY1JB680J	J	AA	68 ohms,1/16W
R908~910	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R912~914	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R915	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R916,917	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R918	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R919~922	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R923	VRS-CY1JB330J	J	AA	33 ohms,1/16W
R924	VRS-CY1JB181J	J	AA	180 ohms,1/16W
R925	VRS-CY1JB391J	J	AA	390 ohms,1/16W
R926	VRS-CY1JB330J	J	AA	33 ohms,1/16W
R933,934	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R935	VRS-CY1JB821J	J	AA	820 ohms,1/16W
R936	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R937	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R938	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R939	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R945	VRS-CY1JB333J	J	AA	33 kohms,1/16W



## DX-SX1H

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
<b>OTHER CIRCUITRY PARTS</b>				
BI101A/B	QCNCW6834AFZZ	J	AG	Connector Ass'y,2/2Pin
BI301A/B	QCNCW6825AFZZ	J	AN	Connector Ass'y,7/7Pin
CNP51	QCNCM891CAFZZ	J	AD	Plug,3Pin
CNP52	QCNCM891EAFZZ	J	AD	Plug,5Pin
CNP53	QCNCM891CAFZZ	J	AD	Plug,3Pin
CNP101	QCNCM742HAFZZ	J	AB	Plug,8Pin
CNP102	QCNCM705NAFZZ	J	AC	Plug,13Pin
CNP105	QCNCM629KAFZZ	J	AD	Plug,10Pin
△ CNP106,107	QCNCM700BAFZZ	J	AC	Plug,2Pin
CNP201	QCNCM704KAFZZ	J	AC	Plug,10Pin
CNP202	QCNCM704CAFZZ	J	AB	Plug,3Pin
CNP203	QCNCM704DAFZZ	J	AB	Plug,4Pin
CNP301	QCNCM705MAFZZ	J	AC	Plug,12Pin
CNP302	QCNCM705HAFZZ	J	AB	Plug,8Pin
CNP305	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP307	QCNCM705EAFZZ	J	AB	Plug,5Pin
CNP308	QCNCM742HAFZZ	J	AB	Plug,8Pin
CNP309	QCNCM705LAFZZ	J	AC	Plug,11Pin
CNP501	QCNCW864DAFZZ	J	AC	Plug,4Pin
CNP502	QCNCM891BAFZZ	J	AC	Plug,2Pin
CNP503	QCNCM891CAFZZ	J	AD	Plug,3Pin
CNP504	QCNCM891EAFZZ	J	AD	Plug,5Pin
CNP505	QCNCM891CAFZZ	J	AD	Plug,3Pin
CNP901	QCNCM891EAFZZ	J	AD	Plug,5Pin
CNP902	QCNCM891LAFZZ	J	AE	Plug,11Pin
CNP903	QCNCM891PAFZZ	J	AE	Plug,14Pin
CNP904	QCNCM891NAFZZ	J	AE	Plug,13Pin
CNP905	QCNCM891HAFZZ	J	AD	Plug,8Pin
CNP906	QCNCM891MAFZZ	J	AE	Plug,12Pin
CNS51A/B	QCNCW6820AFZZ	J	AG	Connector Ass'y,3/3Pin
CNS52A/B	QCNCW6819AFZZ	J	AH	Connector Ass'y,5/5Pin
CNS53A/B	QCNCW6824AFZZ	J	AG	Connector Ass'y,3/3Pin
CNS101A/B	QCNCW6813AFZZ	J	AK	Connector Ass'y,8/8Pin
CNS102A/B	QCNCW6816AFZZ	J	AM	Connector Ass'y,13/13Pin
CNS107	QCNCW6817AFZZ	J	AG	Socket,2Pin
CNS201A/B/C	QCNCW6809AFZZ	J	AM	Connector Ass'y,14/10/4Pin
CNS202A/B	QCNCW6803AFZZ	J	AF	Connector Ass'y,3/3Pin
CNS301A/B	QCNCW6810AFZZ	J	AL	Connector Ass'y,12/12Pin
CNS302A/B	QCNCW6811AFZZ	J	AN	Connector Ass'y,8/8Pin
CNS307A/B	QCNCW6812AFZZ	J	AK	Connector Ass'y,5/5Pin
CNS309A/B	QCNCW6818AFZZ	J	AM	Connector Ass'y,11/11Pin
CNS501	QCNCWXF30AFZZ	J	AF	Socket,30Pin
CNS502	QCNCW762LAFZZ	J	AE	Socket,11Pin
△ F101	QFS-C102GAFNI	J	AD	Fuse,T1A L 250V
△ F102,103	QFS-C202GAFNI	J	AD	Fuse,T2A L 250V
FL201	VVK20U44100-1	J	AV	FL Display
FL301	RFILN0044GEZZ	J	AC	EMI Removal Filter
J301	VHPGP1F32T/-1	J	AP	Optical Fiber Data Link,GP1F32T
J302	QSOCD1302AFZZ	J	AK	Terminal,1Bit
JAK201	QJAKM0210AFZZ	J	AF	Terminal,Headphones
M703	RMOTV0534AFM1	J	AQ	Motor Ass'y [Loading]
REY301~303	RRLY20180AFZZ	J	AN	Relay
△ SOC1	QSOCA2214AFZZ	J	AH	AC Inlet
SOC301	QSOCJ4125AFZZ	J	AE	Terminal,RCA
SOC302	QSOCJ4436AFZZ	J	AL	Terminal,Line Output
SW51	QSW-M0166AFZZ	J	AD	Switch,Push Type [PLAY]
SW52	QSW-M0166AFZZ	J	AD	Switch,Push Type [STOP]
△ SW101	QSW-P9236AFZZ	J	AG	Switch,Push Type [POWER]
SW201	QSW-K0197AFZZ	J	AB	Switch,Key Type [SACD/CD]
SW202	QSW-K0197AFZZ	J	AB	Switch,Key Type [PREV]
SW203	QSW-K0197AFZZ	J	AB	Switch,Key Type [PAUSE]
SW204	QSW-K0197AFZZ	J	AB	Switch,Key Type [PLAY]
SW205	QSW-K0197AFZZ	J	AB	Switch,Key Type [STOP]
SW206	QSW-K0197AFZZ	J	AB	Switch,Key Type [NEXT]
SW207	QSW-K0197AFZZ	J	AB	Switch,Key Type [OPEN/CLOSE]
SW301	QSW-S2099YAZZ	J	AG	Switch,Slide Type [FILTER]
UN201	VHLGP1U271R-1	J	AG	Rimocon Sensor,GP1U271R

## CD MECHANISM PARTS

301	KRPLE0108AFM1	J	BW	SACD Mechanism Ass'y
303	LHLDZ3198AFZZ	J	AK	Holder,Mechanism
308	PCOVP3215AFZZ	J	AN	Cover,Mechanism
309	PCUSG0705AFZZ	J	AC	Rubber Vibration
312	PCUSG0699AFZZ	J	AC	Rubber Vibration
313	PSHEZ1144AFZZ	J	AG	Sheet,Mechanism Cover
315	GCOVA3135AFM1	J		Tray Ass'y
316	LANGF1627AFFW	J	AL	Bracket,Tray Rack
317	LANGZ0371AFM1	J	AR	Motor Bracket Ass'y
318	LCHS20306AFZZ	J	AZ	Base Chassis

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
319	LHLDM1065AFZZ	J	AY	Stabilizer
320	LHLDZ1785AFM1	J	AH	Tray Guide Bearing Ass'y,A
321	LHLDZ1786AFZZ	J	AG	Tray Guide Bearing,B
322	LPLTM0377AFZZ	J	AX	Plate,Top
323	LPLTM0378AFFW	J	AL	Plate,Yoke
324	MLEVP1073AFM1	J	AK	Lift Lever Ass'y
325	MSPRP0970AFFW	J	AK	Spring,Holder
326	NBLTT0016GEZZ	J	AC	Belt,Timing
327	NGERH0616AFM1	J	AN	Drive Pulley Ass'y
328	NGERH0618AFZZ	J	AL	Gear,Middle
329	NGERH0619AFZZ	J	AG	Gear,Tray Drive
340	NGERR0051AFZZ	J	AK	Gear,Tray Rack
341	NSFTM0300AFFW	J	AZ	Tray Guide Shaft,A
342	NSFTM0301AFFW	J	AZ	Tray Guide Shaft,B
343	PCOVP1341AFZZ	J	AE	Cover,Gear
344	PGIDM0264AFZZ	J	AG	Guide,Tray
345	PMAGF0116AFZZ	J	AN	Magnet
346	PSHEF0272AFZZ	J	AH	Sheet
701	LX-BZ1011AFFD	J	AF	Screw,Mechanism
705	LX-SZ0051AFFD	J	AD	Screw,ø1.4×3mm
709	LX-BZ1010AFFD	J	AH	Screw,ø2×3mm
710	LX-BZ1012AFFD	J	AE	Screw,ø2×6mm
711	LX-BZ1014AFFD	J	AC	Screw,ø2×5mm
712	LX-BZ1015AFFD	J	AD	Screw,ø1.7×3mm
713	LX-BZ1016AFFD	J	AK	Screw,ø2.6×5mm
714	LX-BZ1017AFFD	J	AH	Screw,ø2.6×5mm
715	LX-WZ9168AFZZ	J	AA	Washer,ø3.1×ø6×0.5mm,Cut
716	LX-WZ9171AFZZ	J	AA	Washer,ø2.1×ø4×0.5mm,Cut
717	XJPSF26P06000	J	AA	Screw,ø2.6×6mm
718	XJSSF26P05000	J	AC	Screw,ø2.6×5mm
719	LX-BZ1021AFFD	J	AD	Screw,ø1.7×2mm
M703	RMOTV0534AFM1	J	AQ	Motor Ass'y [Loading]
SW51	QSW-M0166AFZZ	J	AD	Switch,Push Type [PLAY]
SW52	QSW-M0166AFZZ	J	AD	Switch,Push Type [STOP]

## CABINET PARTS

201	GCOVA2342AFSA	J	AG	Cover,Headphones
202	GCOVA2343AFSA	J	AL	Cover,Front
203	GCOVA2344AFSA	J	AG	Cover,Rear
204	GCOVA2345AFSA	J	AL	Cover,Tray
205	GCOVH1309AFSA	J	AD	Filter,Remote Control
206	GITAR0323AFSA	J	AZ	Panel,Terminal
207	GITAS0138AFSA	J	AR	Side Panel,Right
208	GITAS0139AFSA	J	AR	Side Panel,Left
209	GITAT0072AFSA	J	BQ	Top Panel
210	GLEGM0103AFFW	J	AK	Spike Leg
211	GLEGM0104AFFW	J	AF	Leg,Rear
212	HDECP1082AFSA	J	BG	Panel,Acryl
213	HPNLC3698AFSA	J	BM	Front Panel
214	JKNBK0546AFSA	J	AG	Knob,Power
215	JKNBZ2230AFSA	J	AM	Knob,Function
216	LANGK0978AFFW	J	AY	Bracket,Front
217	LANGK0979AFFW	J	AY	Side Bracket,Left
218	LANGK0980AFFW	J	AY	Side Bracket,Right
219	LANGQ1219AFFW	J	AG	Bracket,Terminal
220	LBNDJ2007SCZZ	J	AA	Nylon Band,80mm
221	LCHSM0954AFFW	J	BG	Main Chassis
222	LHLDZ1787AFZZ	J	AE	FL Holder
223	RCORF0128AFZZ	J	AN	Core
224	PRDAR0785AFFW	J	AF	Heat Sink
225	PSPAB0223AFFN	J	AD	Hexagon Spacer,h=12mm
226	PSPAB0224AFFN	J	AE	Hexagon Spacer,h=22mm
227	PSPAB0225AFFN	J	AD	Hexagon Spacer,h=8mm
228	PSPAS0275AFSA	J	AC	Guide,Acryl
229	PSPAS0276AFSA	J	AD	Spacer,Knob
△ 230	QFSDH2104AFZZ	J	AA	Fuse Holder
231	LHLDW1075AFZZ	J	AA	Nylon Band,60mm
232	PFLT-1167AFZZ	J	AB	Felt
233	PSHEG0207AFZZ	J	AQ	Sheet,Top Panel
234	PCUSU0558AFZZ	J	AD	Cushion,Panel
235	PSHEG0204AFZZ	J	AD	Cushion A
236	PSHEG0205AFZZ	J	AE	Cushion B
237	PSHEG0206AFZZ	J	AC	Cushion C
238	TCAUS0281AFZZ	J		Label,Laser 3A
239	TLABS0465AFZZ	J	AB	Label,Laser
240	LANGZ0379AFF1	J		Protection Bracket,Front
241	LANGZ0380AFF1	J		Protection Bracket,Rear
242	PSHEP0430AFZZ	J		Sheet
243	LBNDJ2003SCZZ	J	AA	Nylon Band,100mm
244	TLABZ2672AFZZ	J		Label,Earse
245	PSHEM0150AFZZ	J		Sheet,Earse

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
246	PSPAZ0585AFZZ	J	AD	Insulate Bush
247	PSPAZ0638AFZZ	J	AF	Insulate Spacer
248	TLABP0465AFZZ	J		Label,Fuse
601	LX-BZ1013AFFO	J	AC	Screw,ø3×8mm
602	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
603	LX-HZ0241AFFO	J	AE	Screw,ø4×7mm
604	XBBSD20P05000	J	AA	Screw,ø2×5mm
605	XBBSD20P10000	J	AA	Screw,ø2×10mm
606	XBPSD26P05J00	J	AA	Screw,ø2.6×5mm
607	XBPSD30P08J00	J	AA	Screw,ø3×8mm
608	XHBSD26P06000	J	AA	Screw,ø2.6×6mm
609	XHBSD30P06000	J	AA	Screw,ø3×6mm
611	XJBSD26P08000	J	AA	Screw,ø2.6×8mm
614	XWVSD43-05000	J	AB	Washer,ø4.3×0.5mm
615	XJBSP26P08000	J	AA	Screw,ø2.6×8mm
616	XJBSP30P08000	J	AA	Screw,ø3×8mm
617	XWHRZ33-08080	J	AA	Washer,ø3.3×ø8×0.8mm
619	LX-JZ0170AFF1	J	AA	Screw,ø3×8mm
620	XJSS130P08000	J	AB	Screw,ø3×8mm
621	XBBS130P08J00	J	AB	Screw,ø3×8mm
622	XJBS130P08XS0	J	AB	Screw,ø3×8mm
623	XHSSF26P06000	J	AA	Screw,ø2.6×6mm
624	LX-JZ0162AFF1	J	AC	Screw,ø3×10mm
625	XWHS132-10080	J	AB	Washer,ø3.2×ø5×1mm
626	XWHSN33-05080	J		Washer,ø3.3×ø5×0.8mm
627	XNESN30-24000	J		Nut,ø3mm

### ACCESSORIES/PACKING PARTS

1	GLEGG0126AF00	J	AG	Leg Cushion
△ 2	QACCB0113AFZZ	J	AY	AC Power Supply Cord [For U.K.]
△ 2	QACCE0106AFZZ	J	AW	AC Power Supply Cord [Except for U.K.]
3	QCNWG0429AFZZ	J	BF	Connection Cord
4	RRMCG0332AFSA	J	BD	Remote Control
5	SPAKA2749AFZZ	J	AX	Packing Add.,Right
6	SPAKA2750AFZZ	J	AX	Packing Add.,Left
7	SPAKC7105AFZZ	J		Packing Case
8	SPAKZ0546AFZZ	J	AC	Leg Protection Material
9	SSAKA0226AFZZ	J		Polyethylene Bag,Accessories
10	SSAKH0330AFZZ	J	AF	Sheet,Unit
11	TCADN0104AFZZ	J		Resistration Card [For U.K. Only]
12	TGANE1235AFZZ	J		Warranty Card [For U.K. Only]
13	TINSZ1414AFZZ	J	AX	Operation Manual
14	TLABE0358AFZZ	J		Label,Bar Code
15	SPAKZ0554AFZZ	J	AH	Pad,Protection
16	SPAKZ0562AFZZ	J		Pad,Top/Rear
17	TCAUS0282AFZZ	J		Label,Warning [For U.K. Only]
18	TCAUS0279AFZZ	J		Caution,Hot
19	RCORF0015CFZZ	J	AR	Core

### P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~3	DCEKJ0159AF06	J	—	Main/Display/Headphones (Combined Ass'y)
PWB-B1,2	DCEKA0320AF06	J	—	Power/Power Switch (Combined Ass'y)
PWB-C	DCEKS0150AF03	J	—	SACD
PWB-D1~3	DUNTZ0784AF03	J	—	Tray Sensor/Mode Switch/Pickup In Sensor (Combined Ass'y)

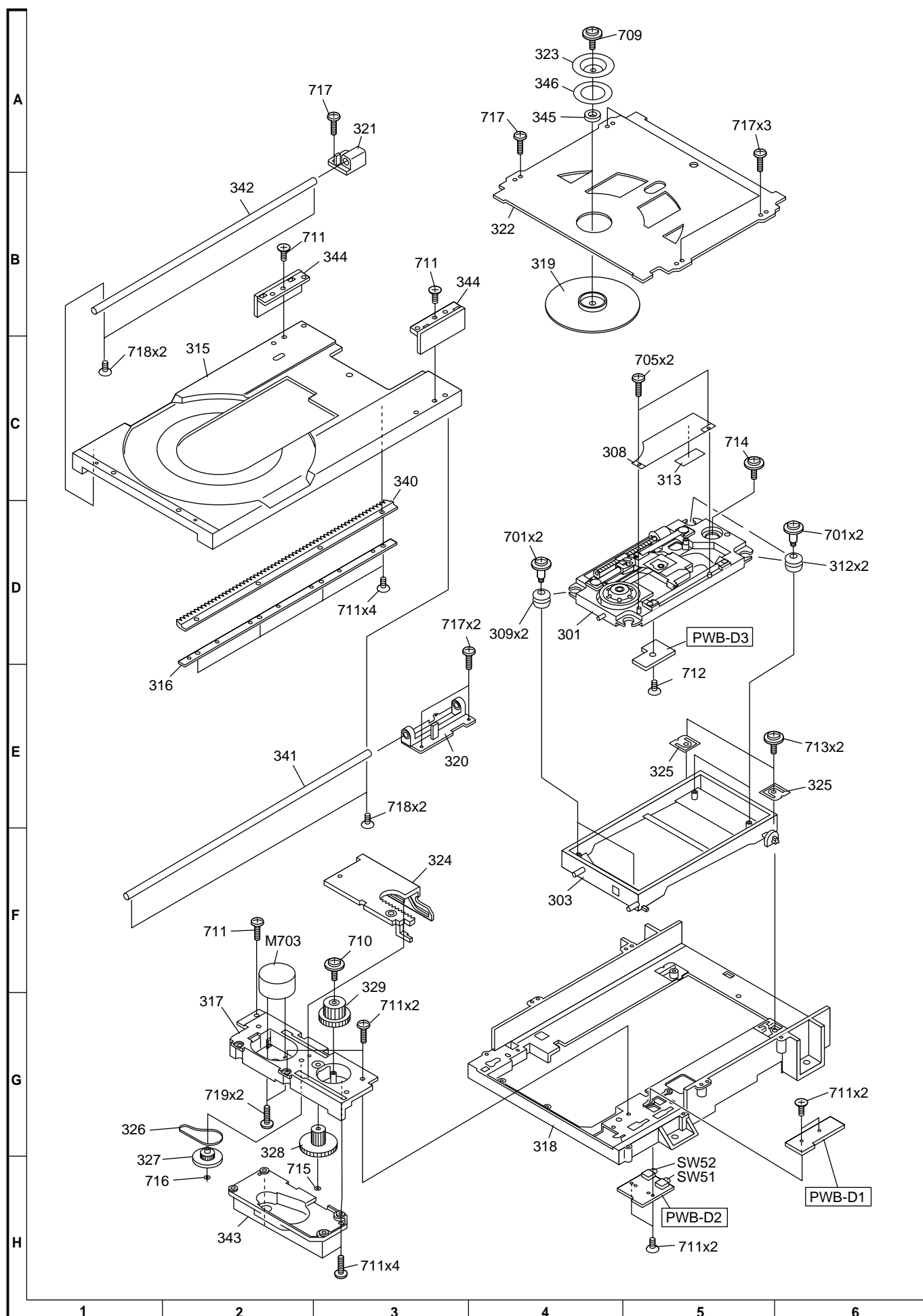


Figure 7 SCD MECHANISM EXPLODED VIEW

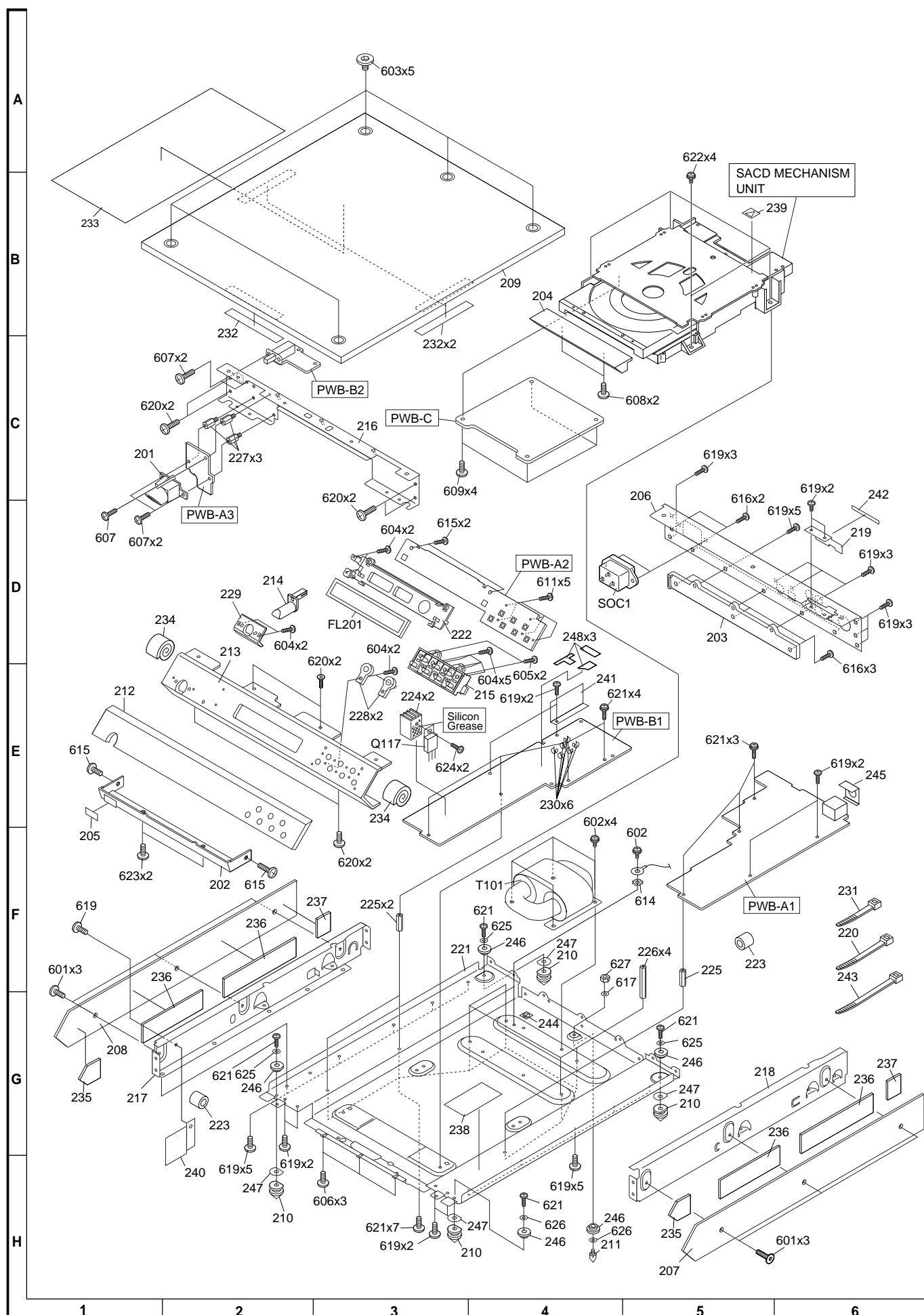
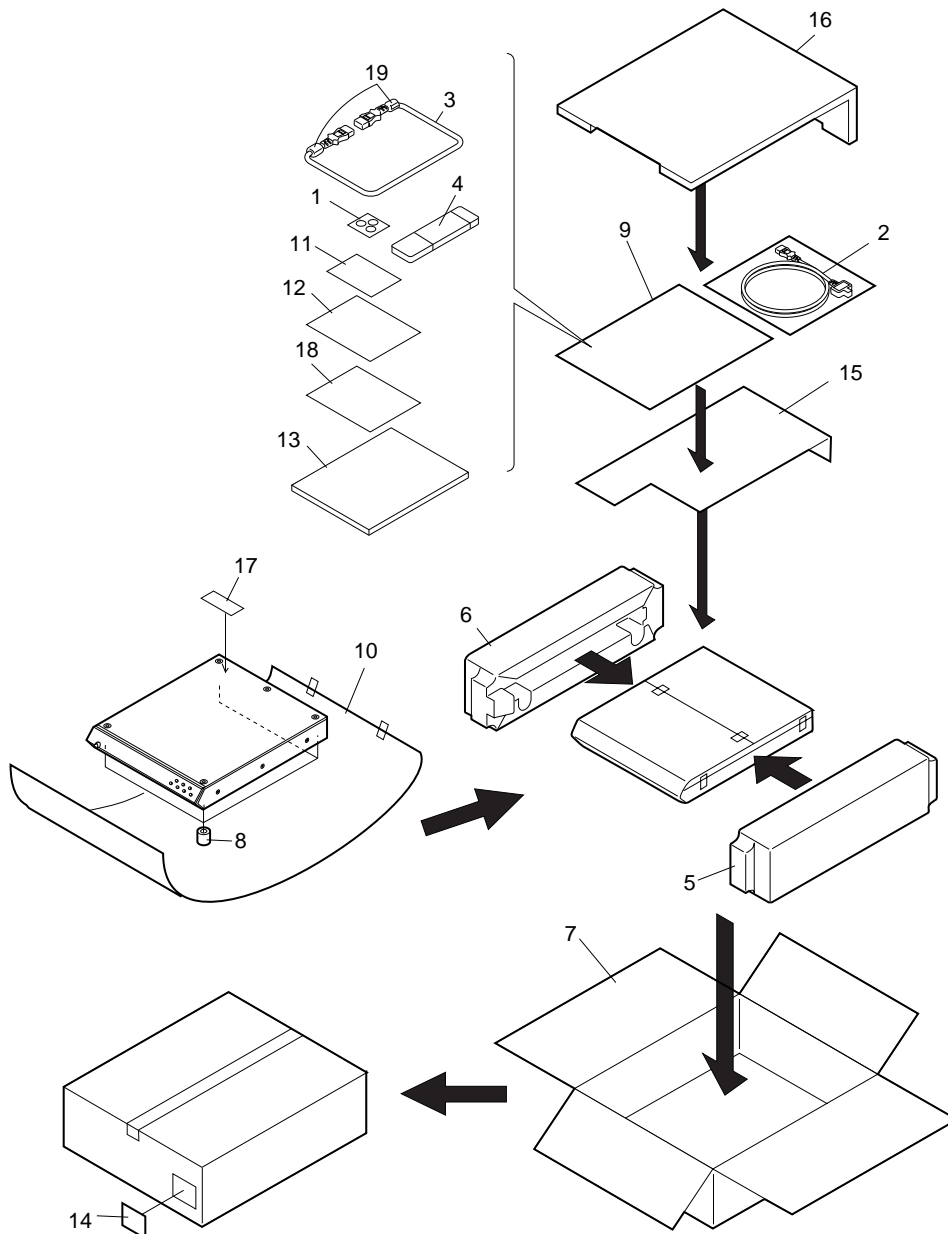


Figure 8 CABINET EXPLODED VIEW



## PACKING METHOD (FOR U.K. ONLY)

1. Leg Cushion	GLEGG0126AF00	11. Resistration Card	TCADN0104AFZZ
2. AC Power Supply Cord	QACCB0113AFZZ	12. Warranty Card	TGANE1235AFZZ
3. Connection Cord	QCNWG0429AFZZ	13. Operation Manual	TiNSZ1414AFZZ
4. Remote Control	RRMCG0332AFSA	14. Label, Bar Code	TLABE0358AFZZ
5. Packing Add., Right	SPAKA2749AFZZ	15. Pad, Protection	SPAKZ0554AFZZ
6. Packing Add., Left	SPAKA2750AFZZ	16. Pad, Top/Bottom	SPAKZ0562AFZZ
7. Packing Case	SPAKC7105AFZZ	17. Label, Warning	TCAUS0282AFZZ
8. Leg Protection Material	SPAKZ0546AFZZ	18. Caution, Hot	TCAUS0279AFZZ
9. Polyethylene Bag, Accessories	SSAKA0226AFZZ	19. Core	RCōRF0015CFZZ
10. Sheet, Unit	SSAKH0330AFZZ		



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